GTK-X1BT

SERVICE MANUAL

Ver. 1.4 2016.01

US Model
AEP Model
UK Model
Russian Model
E Model
Argentina Model
Australian Model
Malaysia Model
Mexican Model

Photo: GTK-X1BT

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION: (US model only)

With 6 ohm loads, both channels driven, from 120 – 10,000 Hz; rated 75 watts per channel minimum RMS power, with no more than 0.7% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

The following are measured at
- US model:
  AC 120 V, 60 Hz
- Mexican model:
  AC 127 V, 60 Hz
- AEP, UK and Russian models:
  AC 220 V – 240 V, 50/60 Hz
- E models:
  AC 220 V – 240 V, 50 Hz
- Other models:
  AC 120 V – 240 V, 50/60 Hz

Power output (rated)
- 150 W + 150 W (at 6 ohms, 1 kHz, 1% THD)

RMS output power (reference)
- 250 W + 250 W (per channel at 6 ohms, 1 kHz)

Inputs

AUDIO IN/PARTY CHAIN IN L/R
- Voltage 2 V, impedance 47 kilohms

Outputs

AUDIO OUT/PARTY CHAIN OUT L/R
- Voltage 2 V, impedance 1 kilohm

USB section

Supported format
- MP3 (MPEG 1 Audio Layer-3):
  32 kbps – 320 kbps, VBR
  WMA: 48 kbps – 192 kbps
  AAC: 48 kbps – 320 kbps
  WAV: 16 bit PCM

Sampling frequencies
- MP3 (MPEG 1 Audio Layer-3):
  32 kHz/44.1 kHz/48 kHz
  WMA: 32 kHz/44.1 kHz/48 kHz
  AAC: 32 kHz/44.1 kHz/48 kHz
  WAV: 8 kHz – 48 kHz

Supported USB device
- Mass Storage Class

Maximum current
- 1 A

(USB) port
- Type A

***Bluetooth* section**

Communication system
- *Bluetooth* Standard version 3.0

Output
- *Bluetooth* Standard Power Class 2

Maximum communication range
- Line of sight approx. 10 m[1)]

Frequency band
- 2.4 GHz band (2.4000 GHz – 2.4835 GHz)

Modulation method
- FHSS (Freq Hopping Spread Spectrum)

Compatible *Bluetooth* profiles[2)]
- A2DP (Advanced Audio Distribution Profile)
- AVRCP 1.3 (Audio Video Remote Control Profile)

Supported codecs
- SBC (Sub Band Codec)
- AAC (Advanced Audio Coding)
- aptX (aptX Codec)

[1)] The actual range will vary depending on factors such as obstacles between devices, magnetic fields around a microwave oven, static electricity, reception sensitivity, antenna's performance, operating system, software application, etc.

[2)] *Bluetooth* standard profiles indicate the purpose of *Bluetooth* communication between devices.

FM tuner section

FM stereo, FM superheterodyne tuner

Antenna
- FM wire antenna

Tuning range
- US model:
  87.5 MHz – 108.0 MHz (100 kHz step)
- Other models:
  87.5 MHz – 108.0 MHz (50 kHz step)

Speaker section

Speaker system
- 2-way, Bass reflex

Speaker unit
- Woofer: 200 mm (7 7/8 in), cone type
- Tweeter: 66 mm (2 5/8 in), cone type

Rated impedance
- 6 ohms

General

Power requirements
- US model:
  AC 120 V, 60 Hz
- Mexican model:
  AC 127 V, 60 Hz
- AEP, UK and Russian models:
  AC 220 V – 240 V, 50/60 Hz
- E models:
  AC 220 V – 240 V, 50 Hz
- Other models:
  AC 120 V – 240 V, 50/60 Hz

Power consumption
- 110 W

Power consumption (at the Power Saving mode)
- AEP, UK and Russian models:
  0.5 W (When "BT STBY" is set to "OFF")
  6 W (When "BT STBY" is set to "ON")

Dimensions (w/h/d) (Approx.)
- 757 mm × 303 mm × 363 mm
  (29 7/8 in × 12 in × 14 3/8 in)

Mass (Approx.)
- 13.8 kg (30 lb 7 oz)

Supplied accessories
- Remote control (1)
- R6 (Size AA) batteries (2)
- FM wire antenna (1)

Design and specifications are subject to change without notice.

– Continued on next page –

PERSONAL AUDIO SYSTEM

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NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

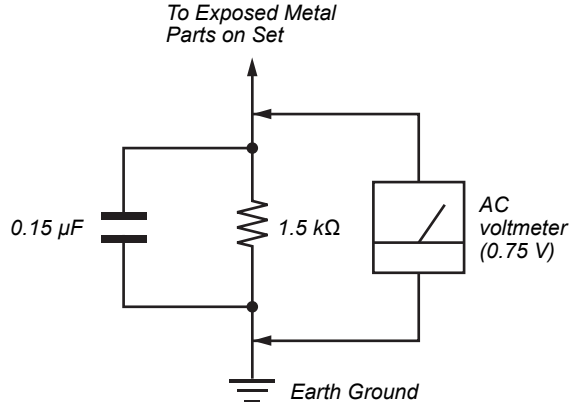

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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TABLE OF CONTENTS

1. SERVICING NOTES 4

2. DISASSEMBLY
2-1. Disassembly Flow 11
2-2. Side-L Panel 12
2-3. Back Panel 13
2-4. Shield Plate (Main) 14
2-5. Side-R Panel Block 15
2-6. Shield Plate (Power) Block 16
2-7. MAIN Board 17
2-8. Power Cord 18
2-9. SMPS Board 19
2-10. Chassis 19
2-11. Front Panel Block 20
2-12. Loudspeaker (20 cm) (SP1, SP2) 21

3. TEST MODE 22

4. ELECTRICAL CHECK 24

5. DIAGRAMS
5-1. Block Diagram - MAIN Section - 25
5-2. Block Diagram - AMP Section - 26
5-3. Block Diagram - REGULATOR Section - 27
5-4. Block Diagram - POWER SUPPLY Section - 28
5-5. Printed Wiring Board
- MAIN Board (Component Side) - 30
5-6. Printed Wiring Board
- MAIN Board (Conductor Side) - 31
5-7. Schematic Diagram - MAIN Board (1/6) - 32
5-8. Schematic Diagram - MAIN Board (2/6) - 33
5-9. Schematic Diagram - MAIN Board (3/6) - 34
5-10. Schematic Diagram - MAIN Board (4/6) - 35
5-11. Schematic Diagram - MAIN Board (5/6) - 36
5-12. Schematic Diagram - MAIN Board (6/6) - 37
5-13. Printed Wiring Board - SMPS Board - 38
5-14. Schematic Diagram - SMPS Board - 39
5-15. Printed Wiring Boards - PANEL Section - 40
5-16. Schematic Diagram - PANEL Section - 41
5-17. Printed Wiring Boards
- AUDIO INPUT Section (1/2) - 42
5-18. Printed Wiring Boards
- AUDIO INPUT Section (2/2) - 43
5-19. Schematic Diagram
- AUDIO INPUT Section (1/2) - 44
5-20. Schematic Diagram
- AUDIO INPUT Section (2/2) - 45
5-21. Printed Wiring Board - USB Board - 46
5-22. Schematic Diagram - USB Board - 46

6. EXPLODED VIEWS
6-1. Back Panel Section 57
6-2. DC Fan Section 58
6-3. Side-R Panel Section 59
6-4. MAIN Board Section 60
6-5. Chassis Section 61
6-6. SS-GTKX1BT-ASSY Section 62
6-7. SPK Board Section 63

7. ELECTRICAL PARTS LIST 64

Accessories are given in the last of the electrical parts list.

SECTION 1
SERVICING NOTES

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size)

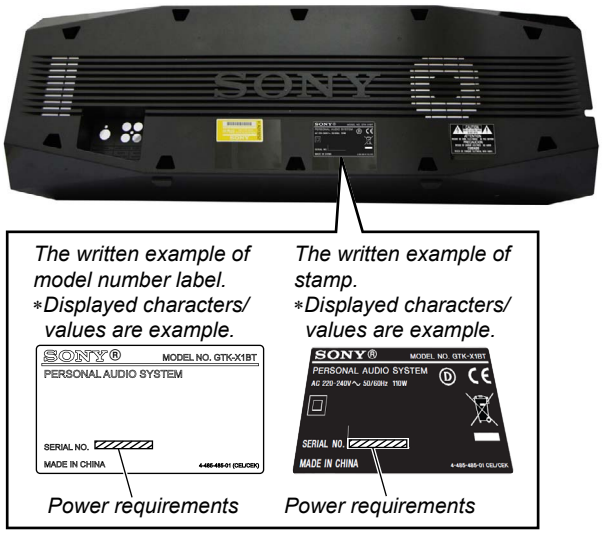
: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

MODEL IDENTIFICATION

– Bottom side view –



Model	Power requirements
US	AC: 120V ∿ 60Hz 110W
AEP, UK, RU	AC: 220V - 240V ∿ 50/60Hz 110W
E51	AC: 220V - 240V ∿ 50Hz 110W
E2, E12, AUS, MY, AR	AC: 120V - 240V ∿ 50/60Hz 110W
MX	ca 127V ∿ 60Hz 110W

- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E2 : 120 V AC area in E model
  E12 : 220 – 240 V AC area in E model
  E51 : Chilean, Peruvian and PX models
  MX : Mexican model
  MY : Malaysia model
  RU : Russian model

NOTICE OF CONNECTOR CHECK

When changing MAIN board to Suffix-14, the connector for MAIN board (CN301) is synchronized. When the connector replacement is necessary, order the connector which mentioned in part list.

NOTE OF REPLACING THE IC102, IC306, IC311 AND IC506 ON THE MAIN BOARD

IC102, IC306, IC311 and IC506 on the MAIN board cannot exchange with single. When these parts on the MAIN board are damaged, exchange the entire mounted board.

THE OPERATION CHECK AFTER REPAIR

After repair is completed, connect through Bluetooth, FM, NFC, USB etc. to this unit and perform operation checks (playback, recording, charging, etc.).

NOTE OF PERFORMING THE OPERATION CHECK

Don't perform the operation check in the state where the heat sink was removed from this unit, by any means. When the operation check is performed, be sure to fix the heat sink to the board in advance.

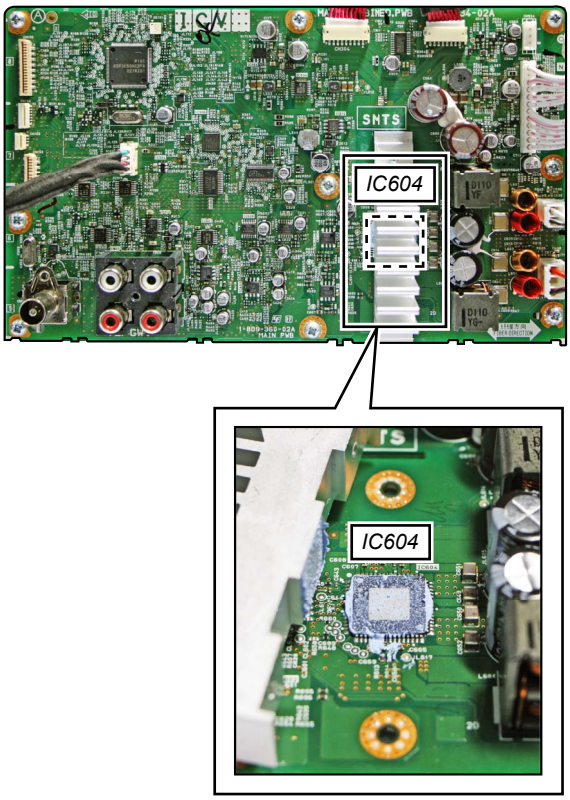
NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD

When IC604 on the MAIN board and the complete MAIN board are replaced, it is necessary to spread the compound between parts and heat sink.

Part No.	Description
7-300-009-67	THERMAL COMPOUND (TIG2000)

Spread the compound referring to the figure below.

– MAIN Board (Component Side) –



Note: Refer to supplement-1 for the printed wiring board, schematic diagram of MAIN board (Suffix-14) and electrical part list for MAIN board.

CAPACITOR ELECTRICAL DISCHARGE PROCESSING

When checking the board, the electrical discharge is necessary for the electric shock prevention.
Connect the resistors referring to the figure below.

• Connection position

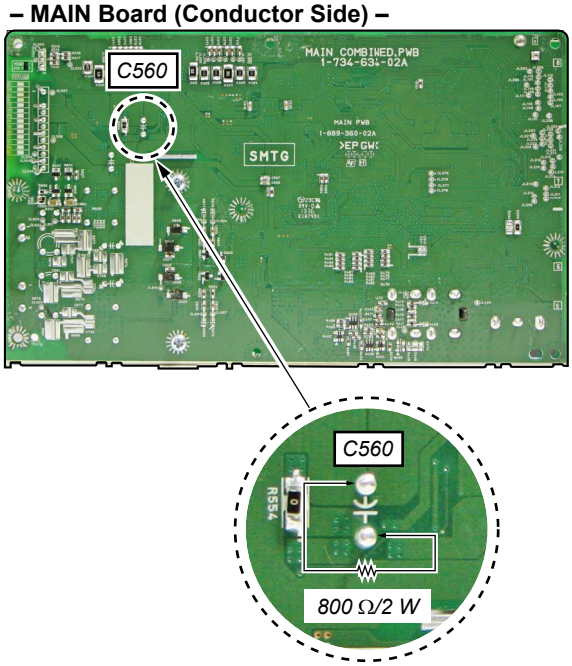
1. MAIN board (Ref. No. C560) (page 5)
2. SMPS board

1. MAIN board (Ref. No. C560)

The MAIN board can be discharged by two kinds of following methods.

1. Both ends of C560.

– MAIN Board (Conductor Side) –

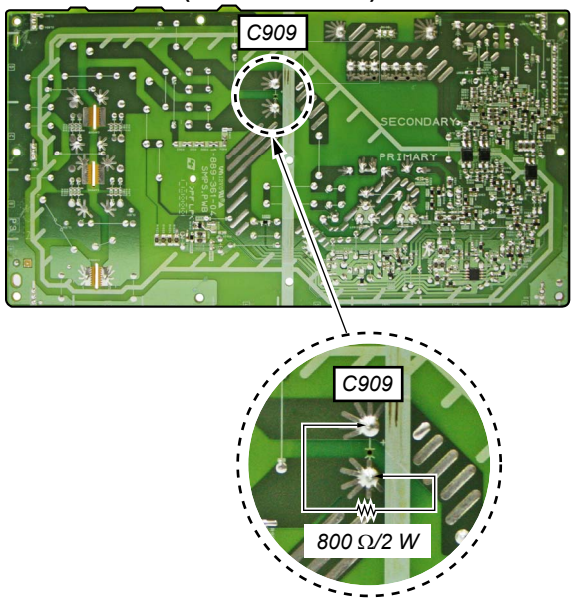


2. SMPS board

The SMPS board can be discharged by two kinds of following methods.

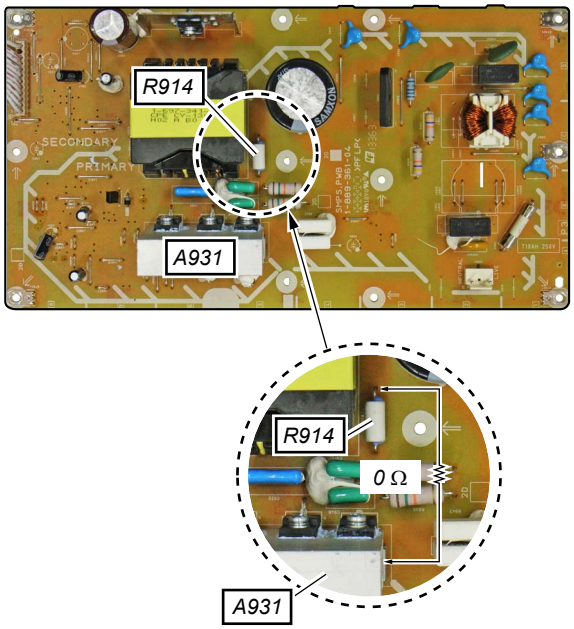
1. Both ends of C909.

– SMPS Board (Conductor Side) –



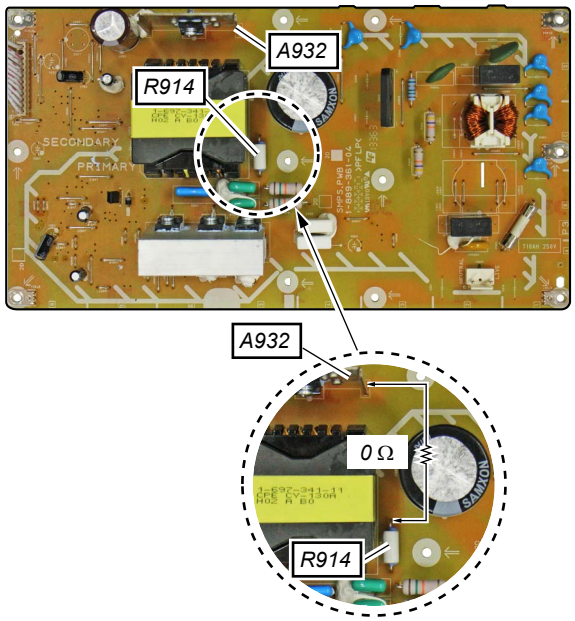
2. Heat sink (A931) and R914.

– SMPS Board (Component Side) –



3. Heat sink (A932) and R914.

– SMPS Board (Component Side) –



BOND FIXATION OF ELECTRIC PARTS

When MAIN board and SMPS board is replaced or the following object parts are replaced, it is necessary to fix parts to the boards by using a specified bond without fail.

• Object boards

1. Complete MAIN board
2. Complete SMPS board

• Object parts

Board	Ref. No.
SMPS	C904, C911, C931, C937, C948, R942, R943, R944, R945, R947, R948, Q904, Q905, VDR900
MAIN	C560, C653, C654, C699

• Use bond

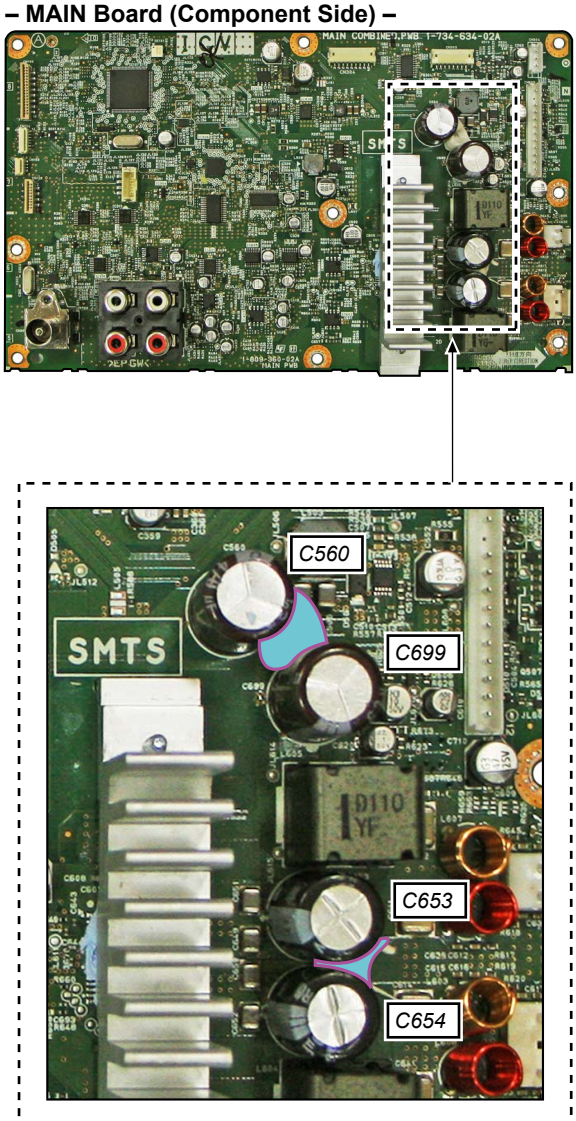
Part No.	Description
7-432-912-52	BOND, SONY (SC-608LV)

• Parts position

1. MAIN board (page 6)
2. SMPS board (page 7)

1. MAIN board

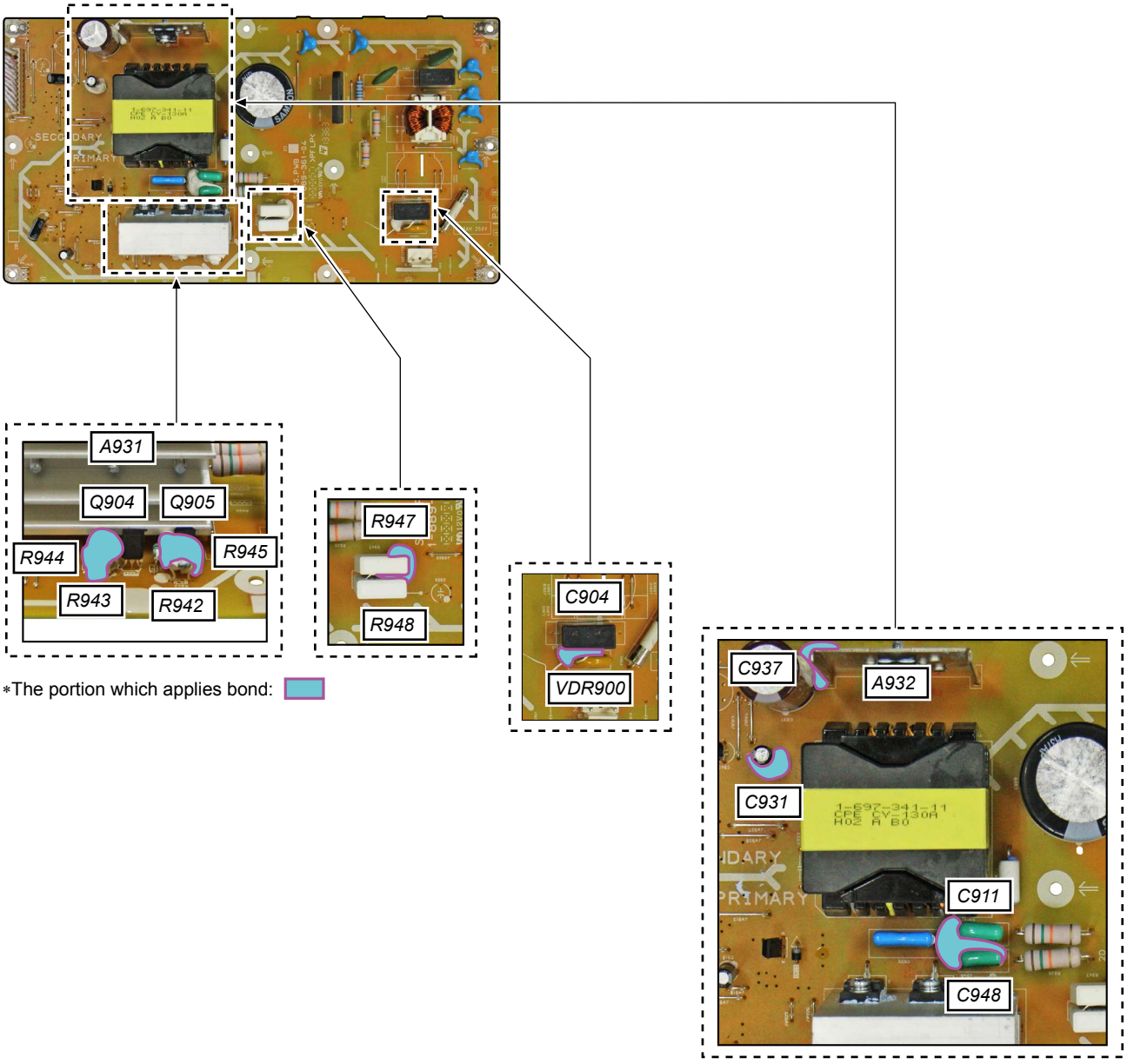
– MAIN Board (Component Side) –



∗The portion which applies bond:

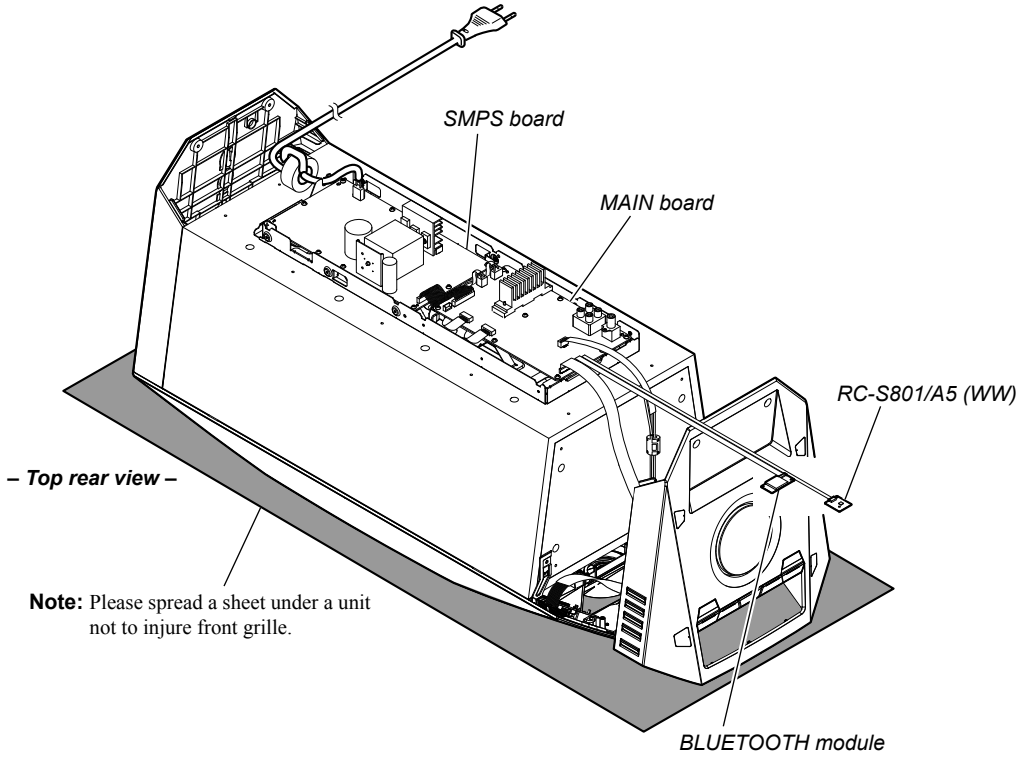
2. SMPS board

– SMPS Board (Component Side) –

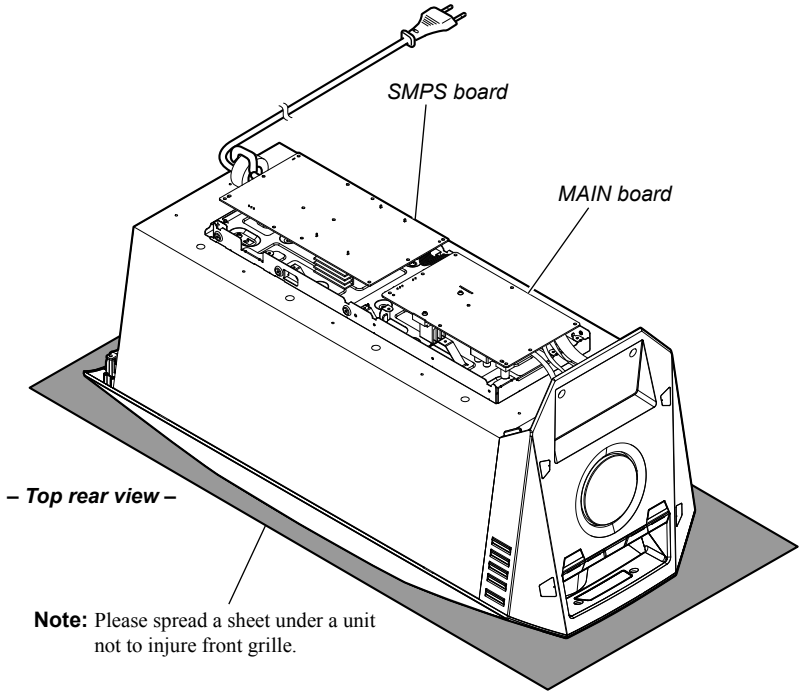


∗The portion which applies bond:

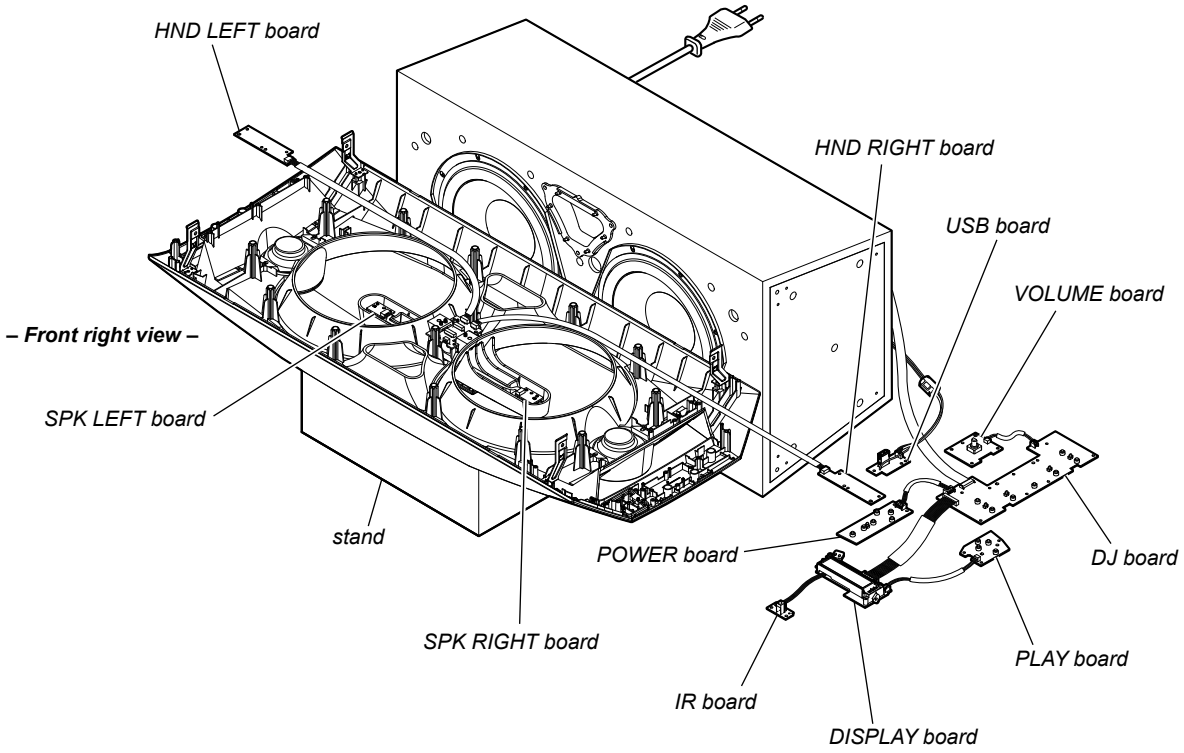
MAIN BOARD, BLUETOOTH MODULE AND RC-S801/A5 (WW) SERVICE POSITION


SMPS board
MAIN board
RC-S801/A5 (WW)
– Top rear view –
Note: Please spread a sheet under a unit not to injure front grille.
BLUETOOTH module

SMPS BOARD SERVICE POSITION



HND LEFT BOARD, HND RIGHT BOARD, USB BOARD, VOLUME BOARD, DJ BOARD, PLAY BOARD, DISPLAY BOARD, IR BOARD, POWER BOARD, SPK RIGHT BOARD AND SPK LEFT BOARD SERVICE POSITION



NOTE OF REPLACING MB BOARD OR BLUETOOTH MODULE OR RC-S801/A5 (WW) BOARD

When the MB board or BLUETOOTH module or RC-S801/A5 (WW) board are replaced, please execute the below service mode.

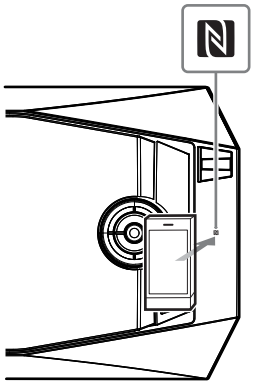
Pairing this system with a *Bluetooth* device

1. Press the [I/⏻] button to turn the power on.
2. Place the *Bluetooth* device within 1 meter (3 feet) from the system.
3. Press BLUETOOTH on the unit to select *Bluetooth* function. "BT AUDIO" appears in the display panel.
4. Hold down BLUETOOTH on the unit for 2 seconds or more. "PAIRING" flashes in the display panel.
5. Perform the pairing procedure on the *Bluetooth* device.
6. Select the model number of the unit on the display of the *Bluetooth* device.
   For example, select "SONY:GTK-X1BT". If passkey is required on the *Bluetooth* device, enter "0000".
7. Perform the *Bluetooth* connection on the *Bluetooth* device.
8. When pairing is completed and the *Bluetooth* connection is established, the *Bluetooth* device name appears in the display panel.
   Depending on the *Bluetooth* device, connection may start automatically after pairing is completed.
   You can check the *Bluetooth* device address by pressing DISPLAY repeatedly.
9. To cancel pairing operation, hold down BLUETOOTH on the unit for 2 seconds or more until "BT AUDIO" appears in the display panel.

Connecting with a smartphone by one touch (NFC)

Note: The operation in this mode must use a NFC-compatible smartphone (Smartphones with a built-in NFC function [OS: Android 2.3.3 or later, excluding Android 3.x])

1. Press the [I/⏻] button to turn the power on.
2. Download and install the app "NFC Easy Connect".
   Download the free Android app from Google Play by searching for "NFC Easy Connect".
3. Start the app "NFC Easy Connect" on the smartphone.
   Make sure that the application screen is displayed.
4. Touch the smartphone to the N-Mark on the system until the smartphone vibrates.



   Complete the connection by following the instructions displayed on the smartphone.
5. When pairing is completed and the *Bluetooth* connection is established, the *Bluetooth* device name appears in the display panel.

Playing music from a *Bluetooth* device

For a *Bluetooth* device

1. Press the [I/⏻] button to turn the power on.
2. Press BLUETOOTH on the unit to select *Bluetooth* function. "BT AUDIO" appears in the display panel.
3. Establish connection with the *Bluetooth* device.
   Press BLUETOOTH on the unit to connect to the last connected *Bluetooth* device.
   Perform the *Bluetooth* connection from the *Bluetooth* device if the device is not connected.
   Once the connection is established, the *Bluetooth* device name appears in the display panel.
4. Press ►.
   Depending on the *Bluetooth* device,
   – you may have to press ► twice.
   – you may need to start playback of an audio source on the *Bluetooth* device.

For an NFC-compatible smartphone

1. Press the [I/⏻] button to turn the power on.
   Touch the smartphone to the N-Mark on the system to establish the *Bluetooth* connection.
   Start playback of an audio source on the smartphone. For details on playback, refer to the operating instructions of your smartphone.

To disconnect the *Bluetooth* device

For a *Bluetooth* device

Press BLUETOOTH on the unit.
"BT AUDIO" appears in the display panel.

For an NFC-compatible smartphone

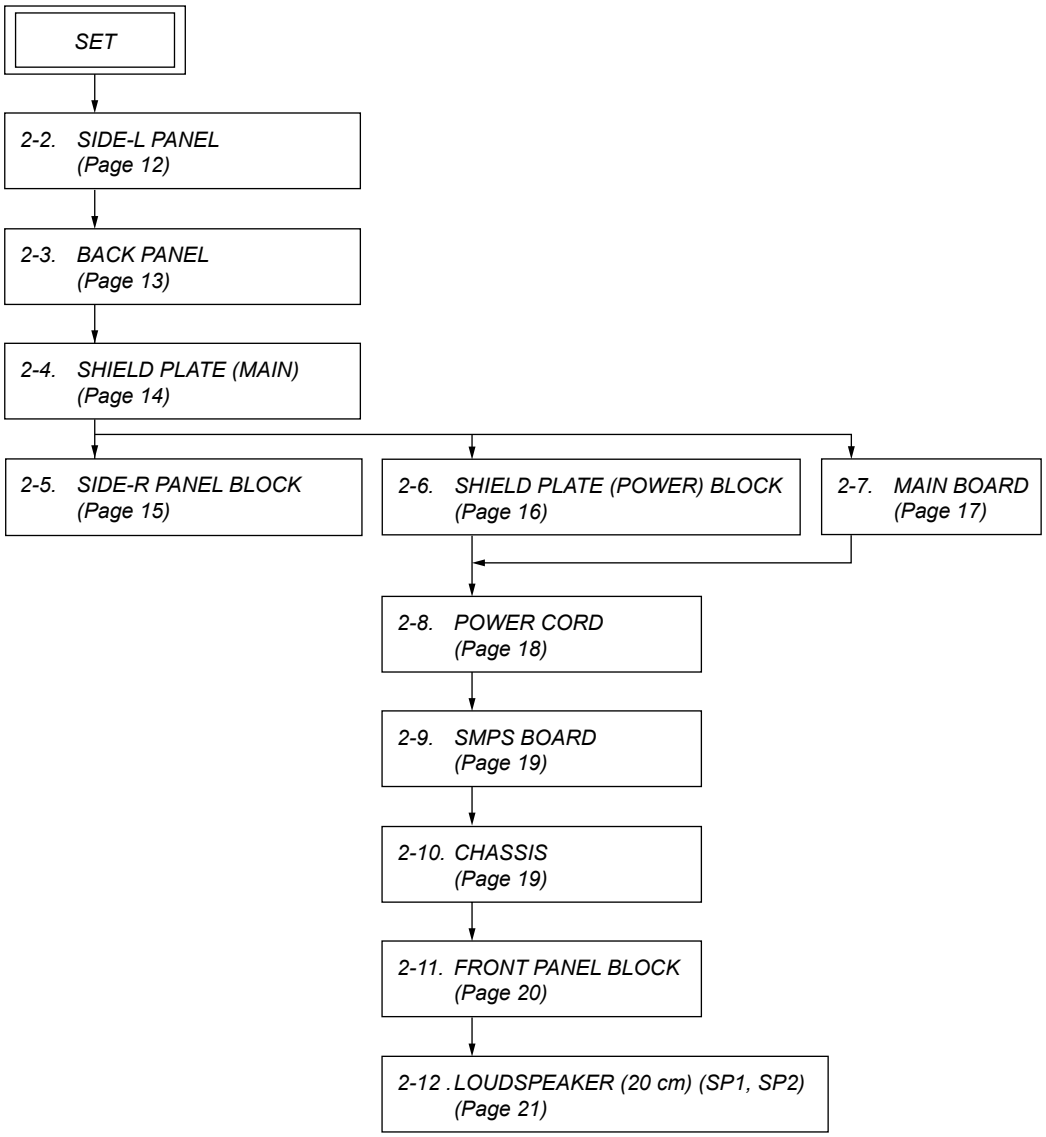
Touch the smartphone to the N-Mark on the system again.

To erase all the pairing registration information perform COLD RESET test mode (Refer page 22).

SECTION 2
DISASSEMBLY

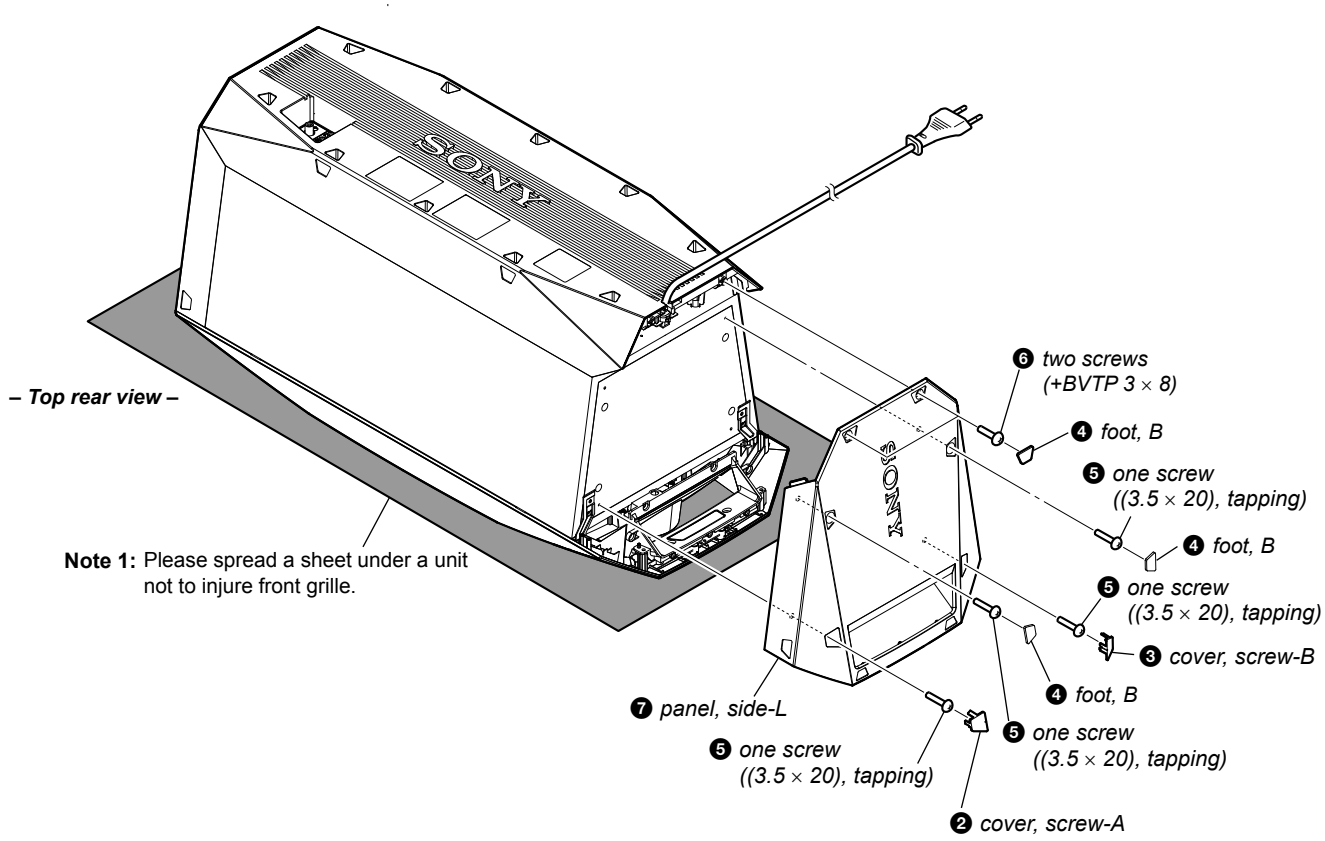
- This set can be disassembled in the order shown below.

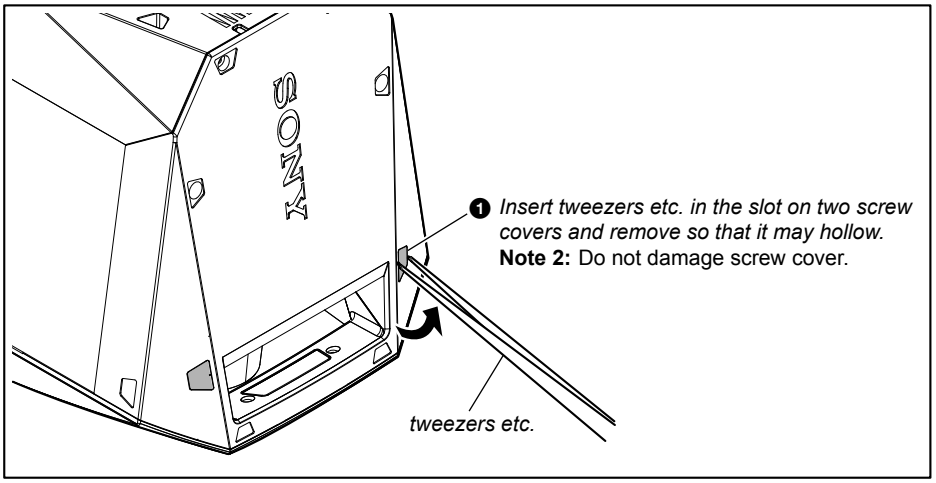
2-1. DISASSEMBLY FLOW


SET
2-2. SIDE-L PANEL (Page 12)
2-3. BACK PANEL (Page 13)
2-4. SHIELD PLATE (MAIN) (Page 14)
2-5. SIDE-R PANEL BLOCK (Page 15)
2-6. SHIELD PLATE (POWER) BLOCK (Page 16)
2-7. MAIN BOARD (Page 17)
2-8. POWER CORD (Page 18)
2-9. SMPS BOARD (Page 19)
2-10. CHASSIS (Page 19)
2-11. FRONT PANEL BLOCK (Page 20)
2-12 . LOUDSPEAKER (20 cm) (SP1, SP2) (Page 21)

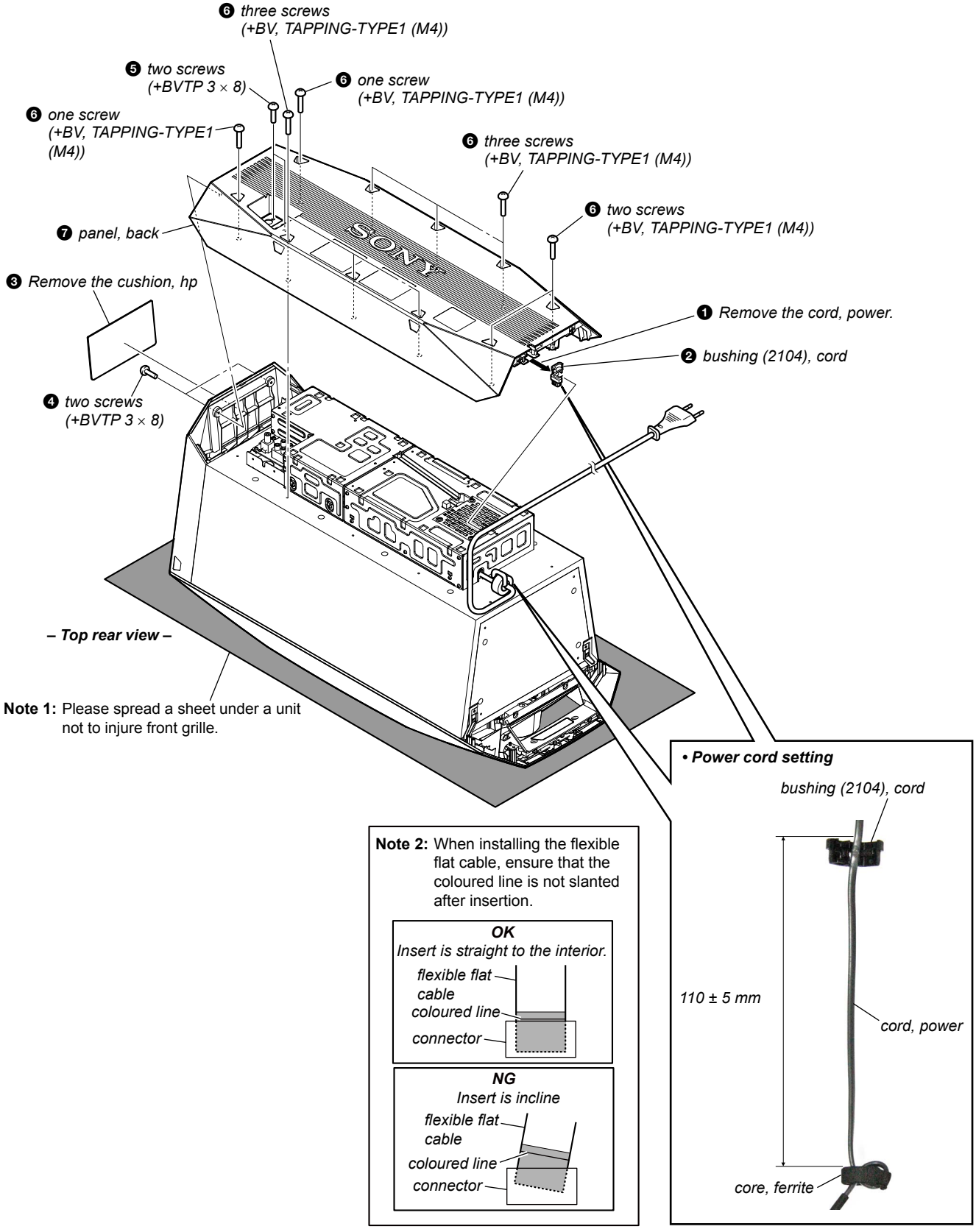
Note: Follow the disassembly procedure in the numerical order given.

2-2. SIDE-L PANEL

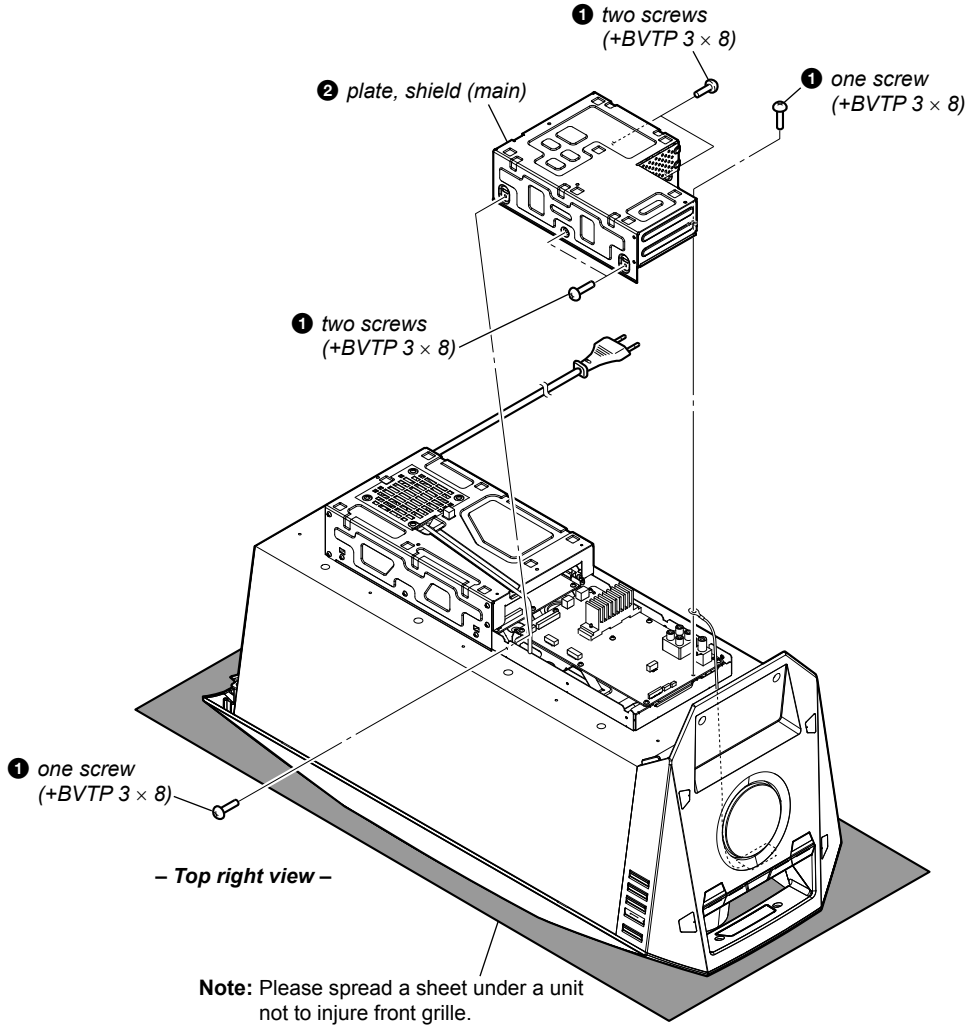

– Top rear view –
Note 1: Please spread a sheet under a unit not to injure front grille.
❻ two screws (+BVTP 3 × 8)
❹ foot, B
❺ one screw ((3.5 × 20), tapping)
❹ foot, B
❺ one screw ((3.5 × 20), tapping)
❸ cover, screw-B
❹ foot, B
❼ panel, side-L
❺ one screw ((3.5 × 20), tapping)
❺ one screw ((3.5 × 20), tapping)
❷ cover, screw-A


❶ Insert tweezers etc. in the slot on two screw covers and remove so that it may hollow.
Note 2: Do not damage screw cover.
tweezers etc.

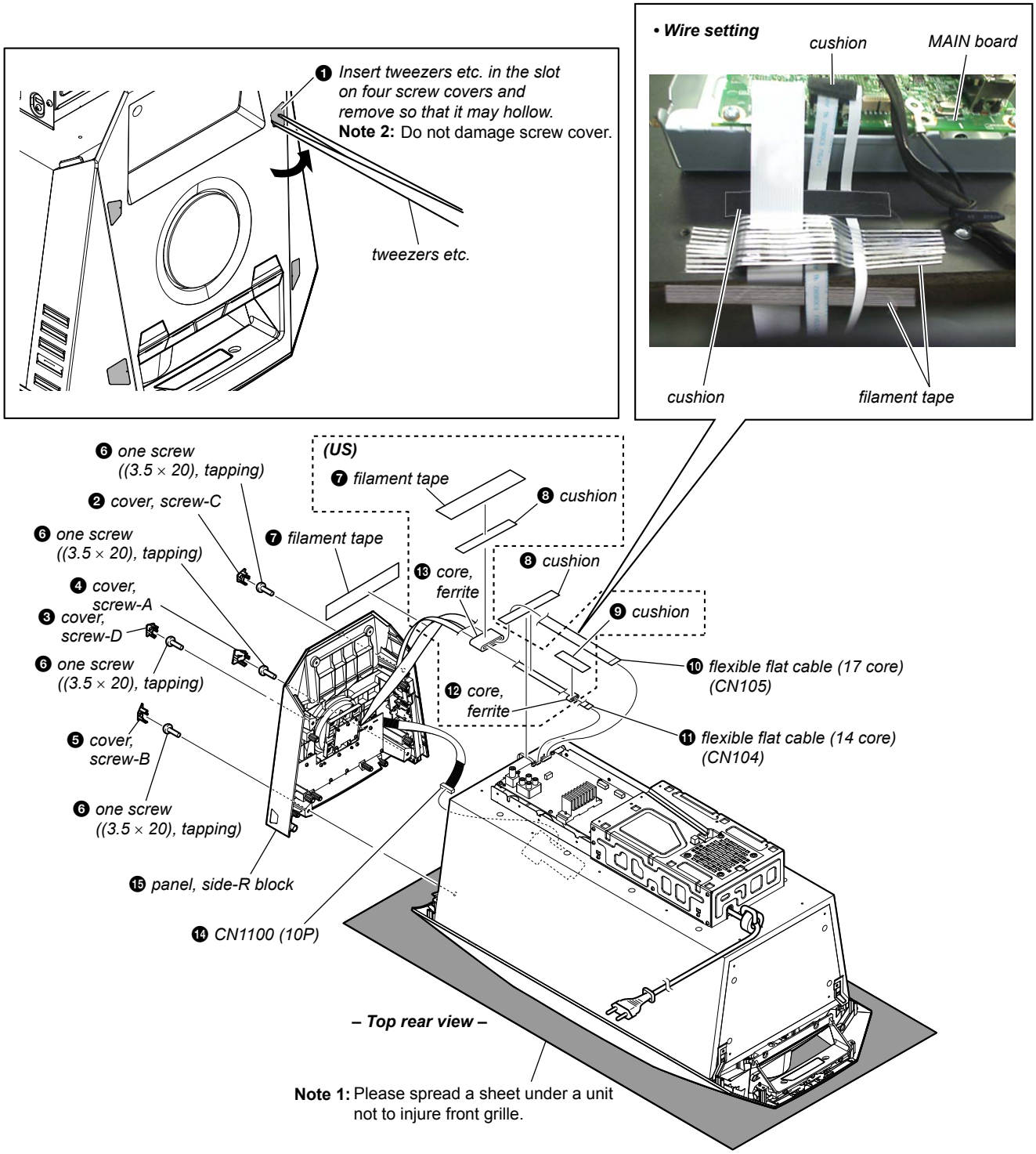
2-3. BACK PANEL


❻ three screws (+BV, TAPPING-TYPE1 (M4))
❺ two screws (+BVTP 3 × 8)
❻ one screw (+BV, TAPPING-TYPE1 (M4))
❻ one screw (+BV, TAPPING-TYPE1 (M4))
❻ three screws (+BV, TAPPING-TYPE1 (M4))
❻ two screws (+BV, TAPPING-TYPE1 (M4))
❼ panel, back
❸ Remove the cushion, hp
❶ Remove the cord, power.
❷ bushing (2104), cord
❹ two screws (+BVTP 3 × 8)
– Top rear view –
Note 1: Please spread a sheet under a unit not to injure front grille.
Note 2: When installing the flexible flat cable, ensure that the coloured line is not slanted after insertion.
OK
Insert is straight to the interior.
flexible flat cable
coloured line
connector
NG
Insert is incline
flexible flat cable
coloured line
connector
• Power cord setting
bushing (2104), cord
110 ± 5 mm
cord, power
core, ferrite

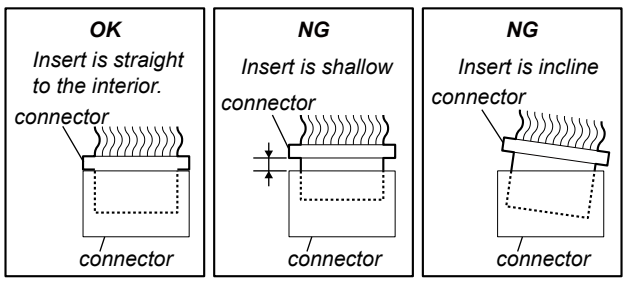
2-4. SHIELD PLATE (MAIN)


❶ two screws
(+BVTP 3 × 8)
❶ one screw
(+BVTP 3 × 8)
❷ plate, shield (main)
❶ two screws
(+BVTP 3 × 8)
❶ one screw
(+BVTP 3 × 8)
– Top right view –
Note: Please spread a sheet under a unit not to injure front grille.

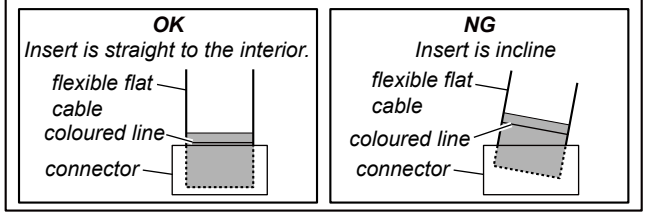
2-5. SIDE-R PANEL BLOCK


❶ Insert tweezers etc. in the slot on four screw covers and remove so that it may hollow.
Note 2: Do not damage screw cover.
tweezers etc.
• Wire setting
cushion
MAIN board
cushion
filament tape
(US)
❻ one screw ((3.5 × 20), tapping)
❼ filament tape
❽ cushion
❷ cover, screw-C
❻ one screw ((3.5 × 20), tapping)
❼ filament tape
❽ cushion
❹ cover, screw-A
❸ cover, screw-D
❻ one screw ((3.5 × 20), tapping)
❺ cover, screw-B
❻ one screw ((3.5 × 20), tapping)
❿ flexible flat cable (17 core) (CN105)
⓫ flexible flat cable (14 core) (CN104)
⓬ core, ferrite
⓭ core, ferrite
❾ cushion
⓯ panel, side-R block
⓮ CN1100 (10P)
– Top rear view –
Note 1: Please spread a sheet under a unit not to injure front grille.

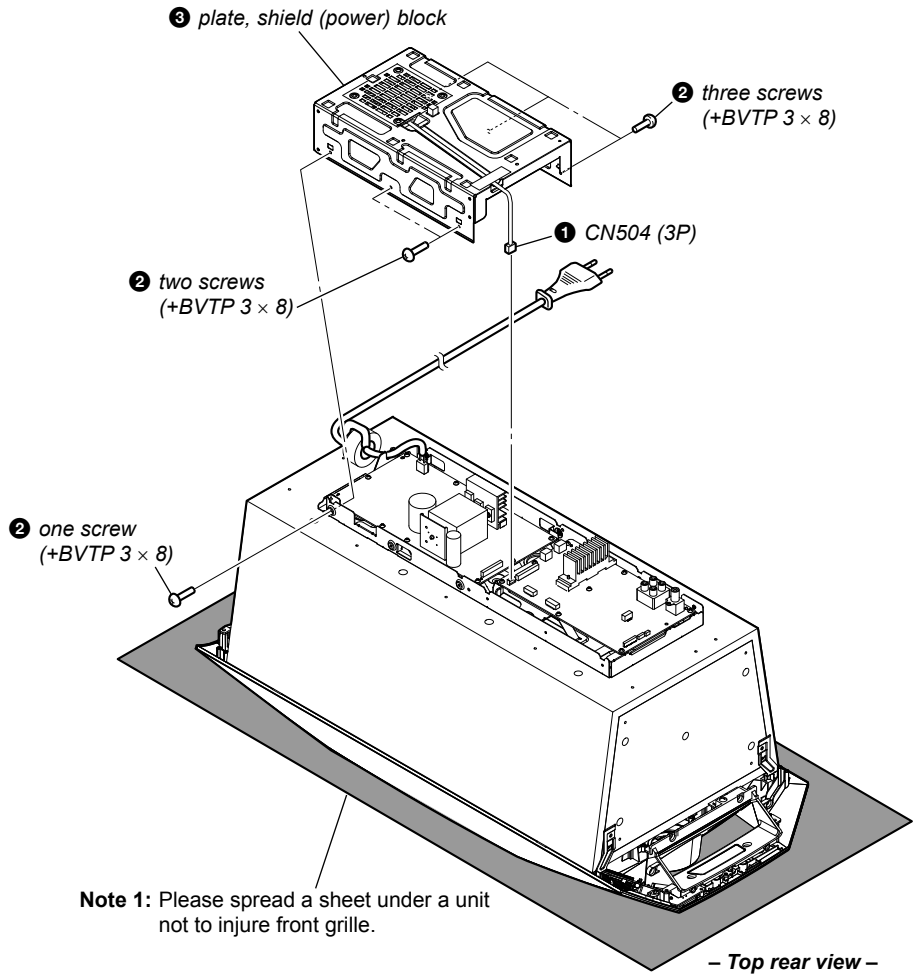
Note 3: When you install the connector, please install them correctly. There is a possibility that this machine damages when not correctly installing it.



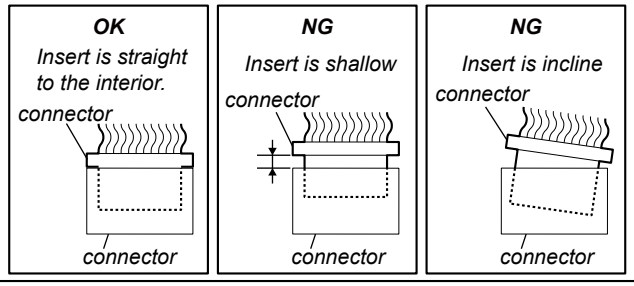
Note 4: When installing the flexible flat cable, ensure that the coloured line is not slanted after insertion.



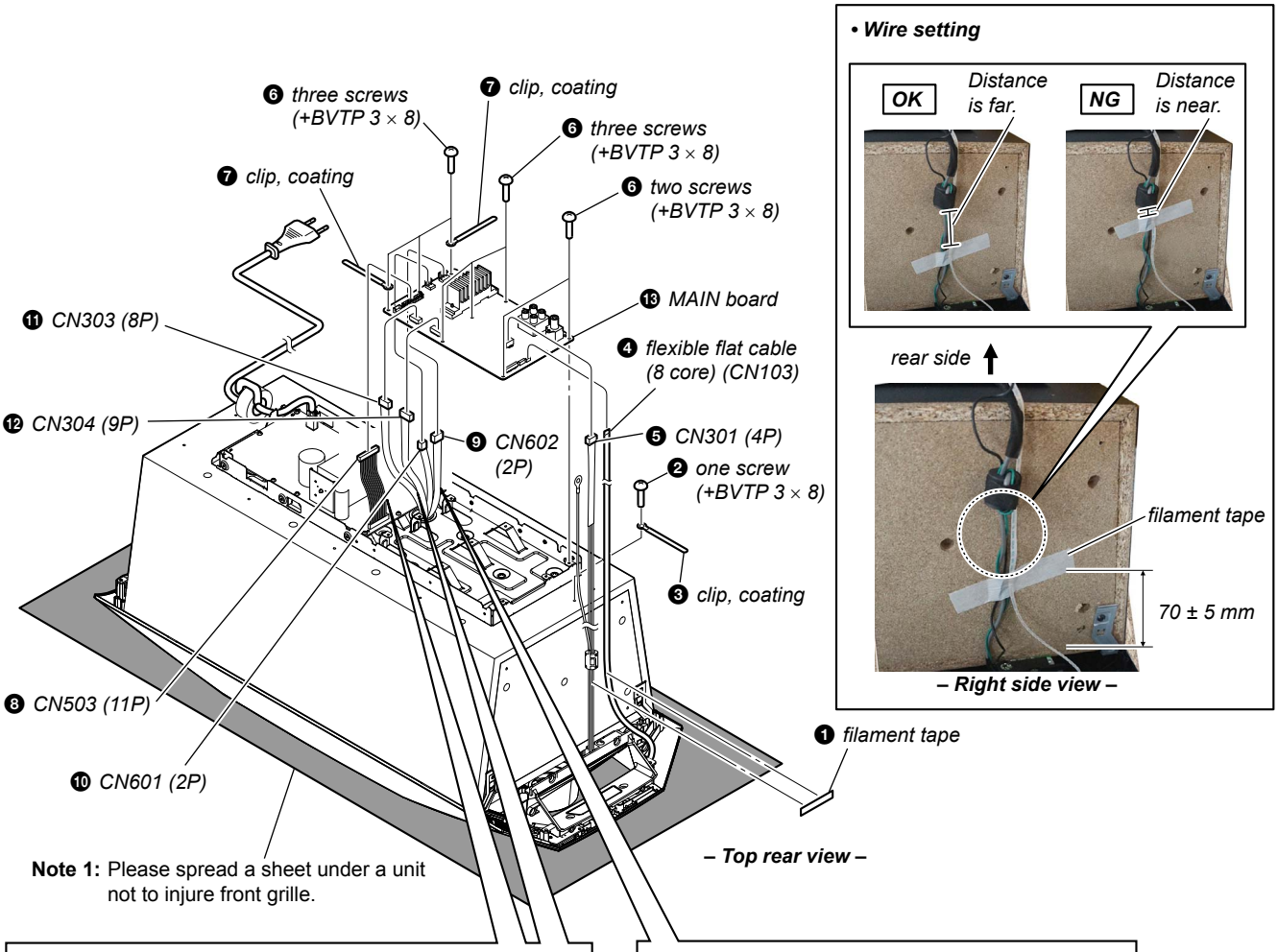
2-6. SHIELD PLATE (POWER) BLOCK


❸ plate, shield (power) block
❷ three screws (+BVTP 3 × 8)
❶ CN504 (3P)
❷ two screws (+BVTP 3 × 8)
❷ one screw (+BVTP 3 × 8)
Note 1: Please spread a sheet under a unit not to injure front grille.
– Top rear view –

Note 2: When you install the connector, please install them correctly. There is a possibility that this machine damages when not correctly installing it.



2-7. MAIN BOARD

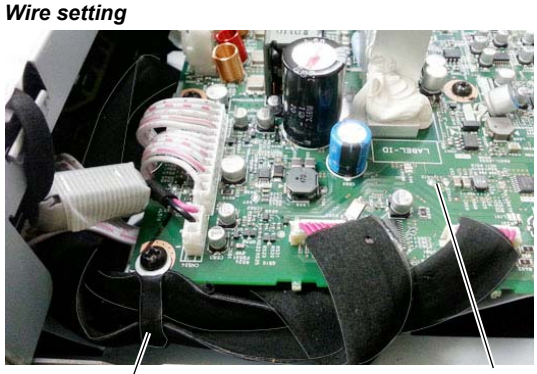

❻ three screws (+BVTP 3 × 8)
❼ clip, coating
❻ three screws (+BVTP 3 × 8)
❼ clip, coating
❻ two screws (+BVTP 3 × 8)
⓫ CN303 (8P)
⓭ MAIN board
❹ flexible flat cable (8 core) (CN103)
⓬ CN304 (9P)
❾ CN602 (2P)
❺ CN301 (4P)
❷ one screw (+BVTP 3 × 8)
❸ clip, coating
❽ CN503 (11P)
❶ filament tape
⓾ CN601 (2P)
– Top rear view –

Note 1: Please spread a sheet under a unit not to injure front grille.

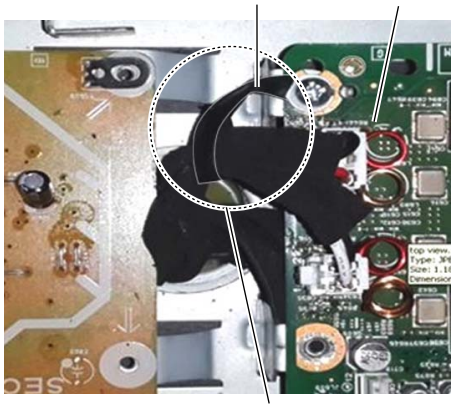
• ***Wire setting***

– Right side view –

• ***Wire setting***

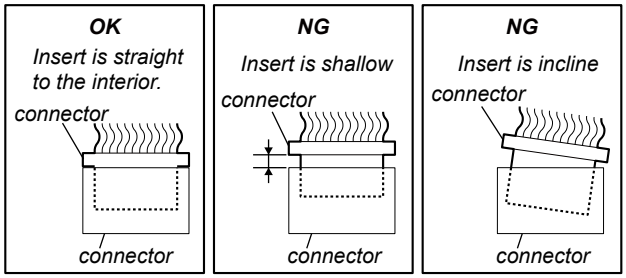


• ***Wire setting***

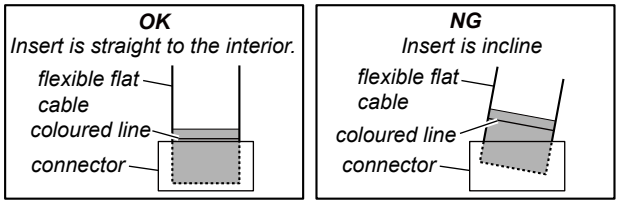


Note 2: Process so that lead wire does not contact with SMPS board.

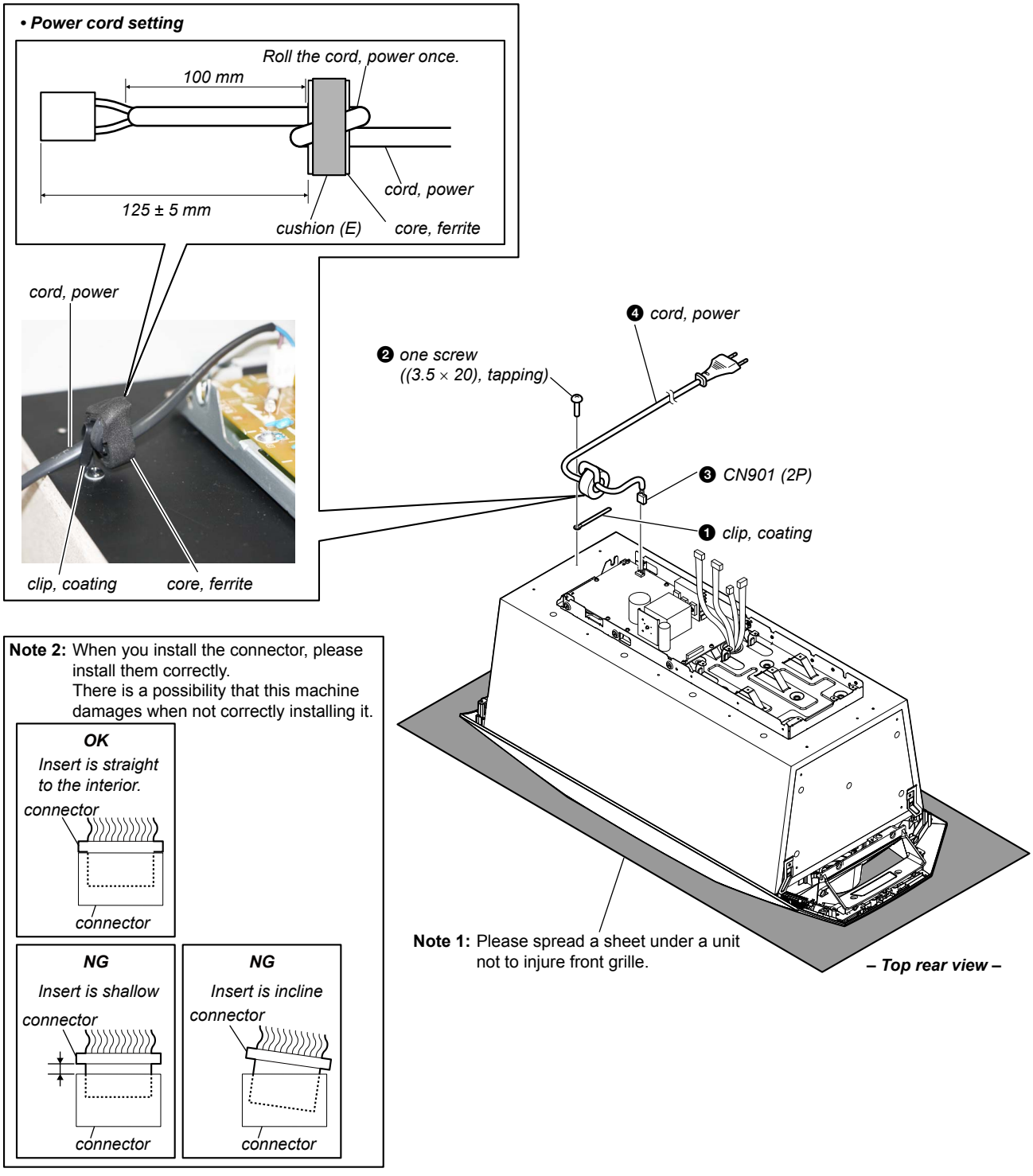
Note 3: When you install the connector, please install them correctly. There is a possibility that this machine damages when not correctly installing it.



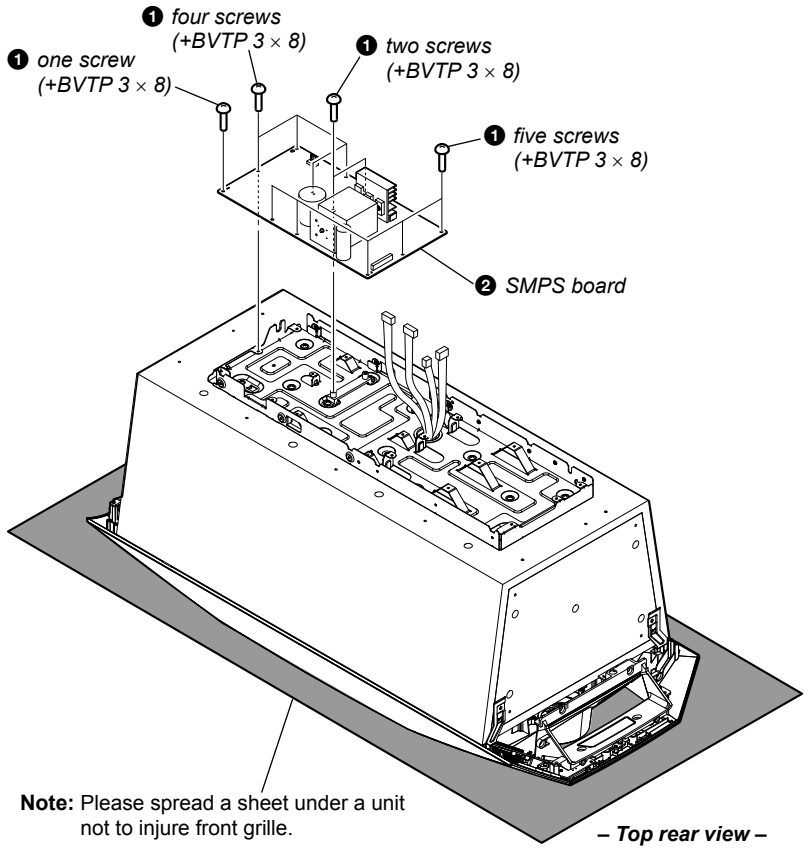
Note 4: When installing the flexible flat cable, ensure that the coloured line is not slanted after insertion.



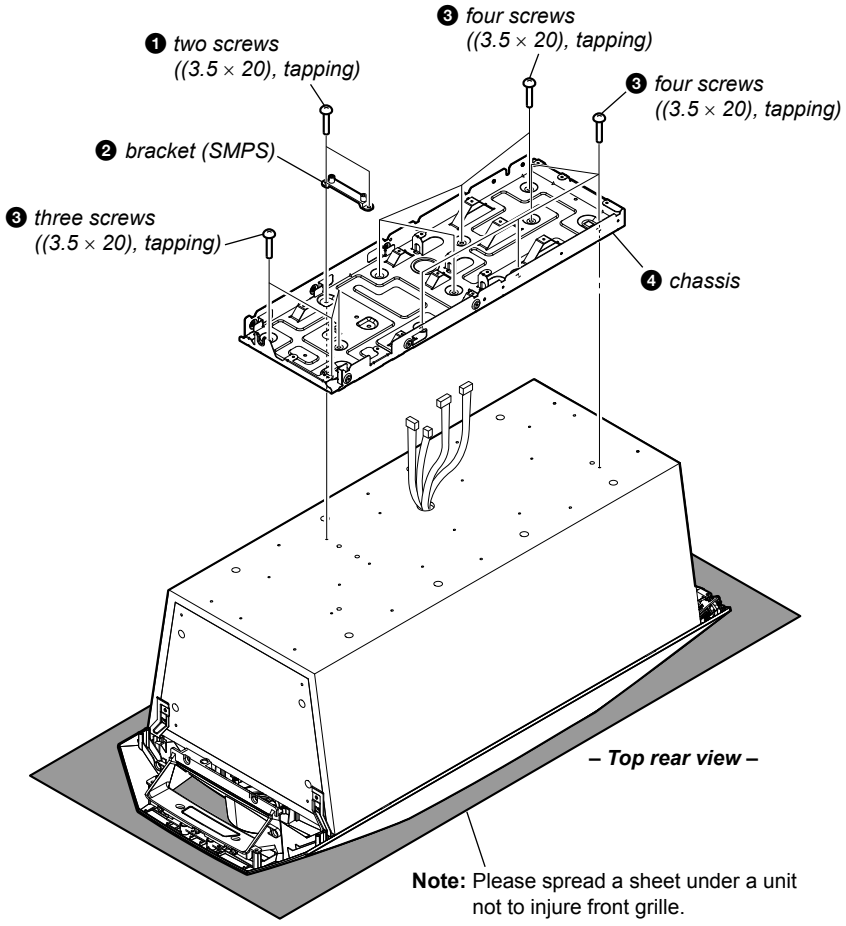
2-8. POWER CORD



2-9. SMPS BOARD


❶ four screws
(+BVTP 3 × 8)
❶ one screw
(+BVTP 3 × 8)
❶ two screws
(+BVTP 3 × 8)
❶ five screws
(+BVTP 3 × 8)
❷ SMPS board
Note: Please spread a sheet under a unit not to injure front grille.
– Top rear view –

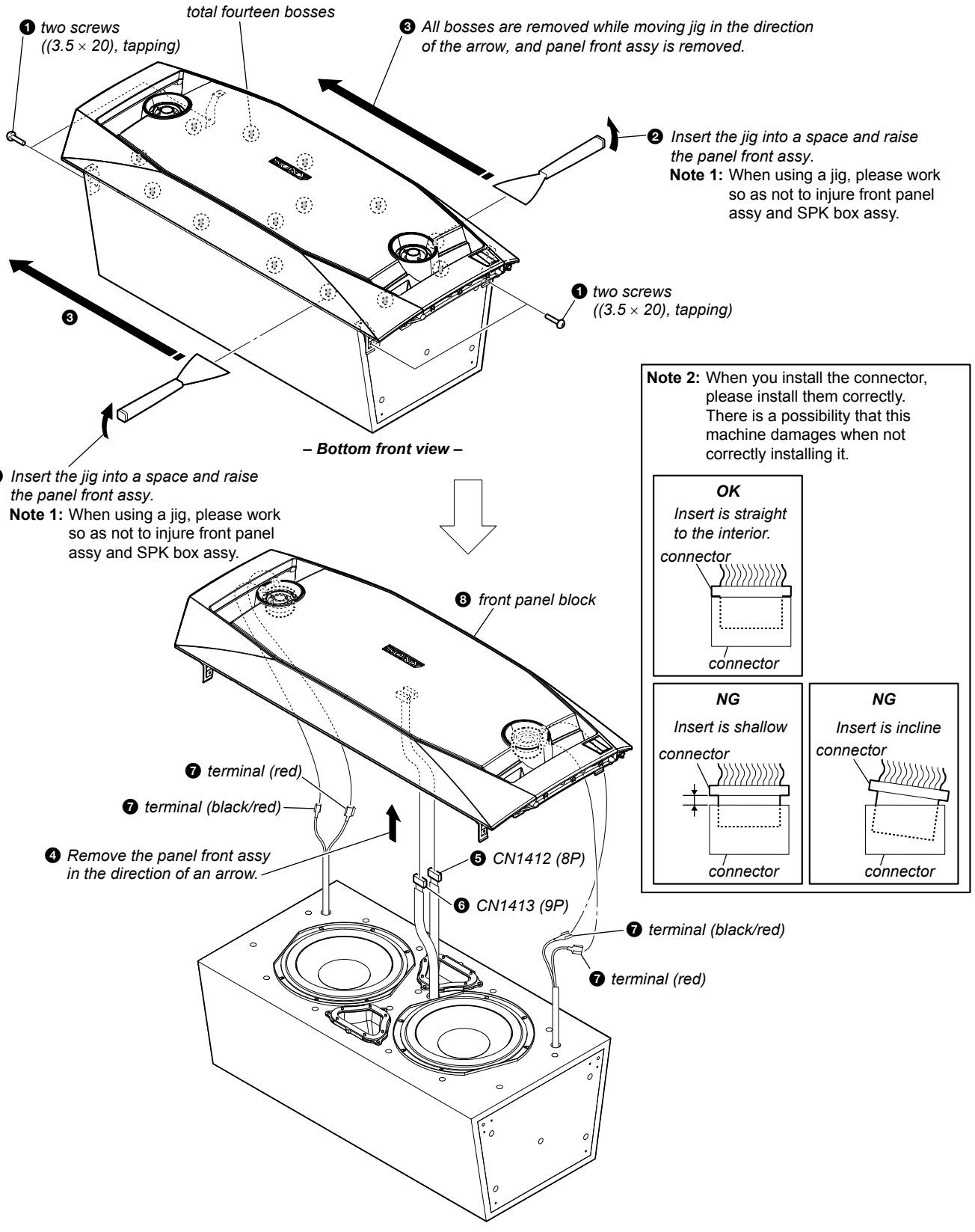
2-10. CHASSIS


❸ four screws
((3.5 × 20), tapping)
❶ two screws
((3.5 × 20), tapping)
❸ four screws
((3.5 × 20), tapping)
❷ bracket (SMPS)
❸ three screws
((3.5 × 20), tapping)
❹ chassis
– Top rear view –
Note: Please spread a sheet under a unit not to injure front grille.

2-11. FRONT PANEL BLOCK

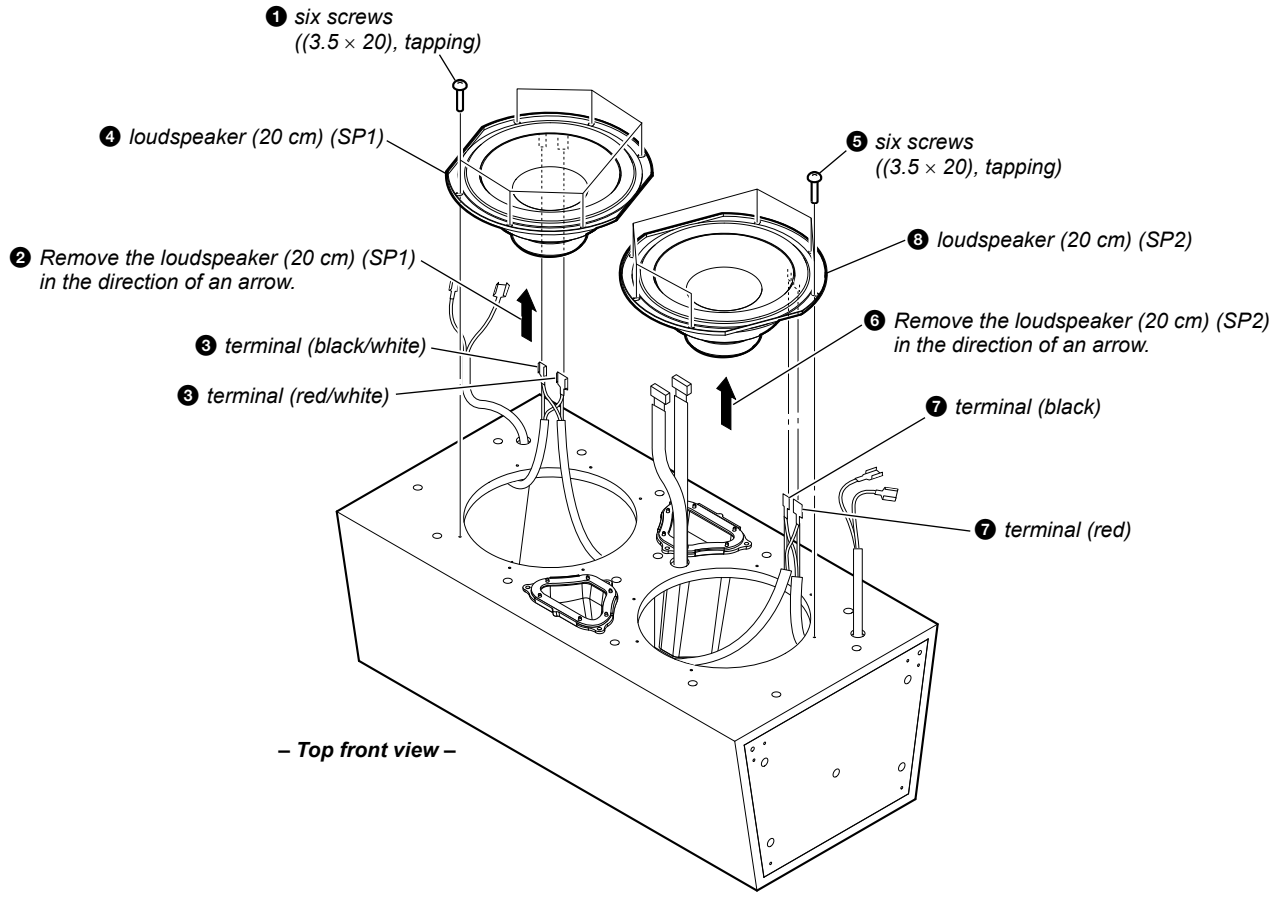
- JIG
  When disassembling the set, use the following jig (for speaker removal).

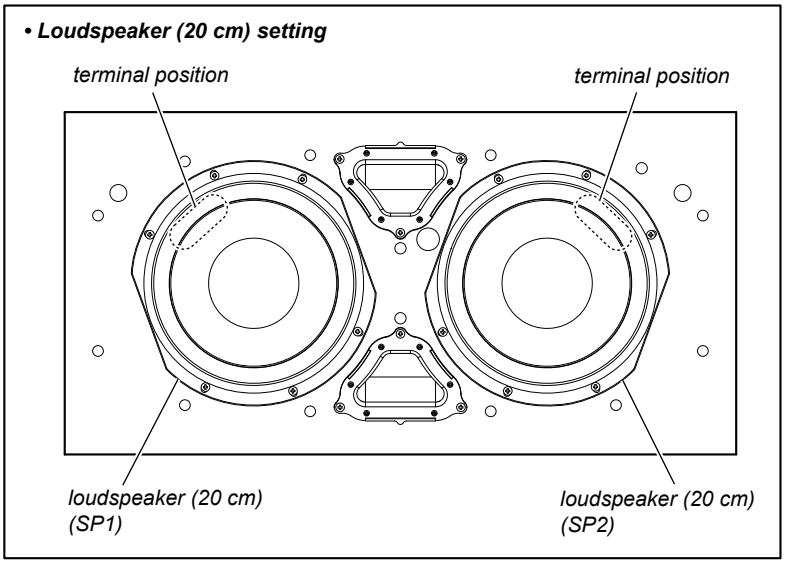
Part No.	Description
J-2501-238-A	JIG FOR SPEAKER REMOVAL


❶ two screws ((3.5 × 20), tapping)
total fourteen bosses
❸ All bosses are removed while moving jig in the direction of the arrow, and panel front assy is removed.
❷ Insert the jig into a space and raise the panel front assy.
Note 1: When using a jig, please work so as not to injure front panel assy and SPK box assy.
❶ two screws ((3.5 × 20), tapping)
❸
– Bottom front view –
❷ Insert the jig into a space and raise the panel front assy.
Note 1: When using a jig, please work so as not to injure front panel assy and SPK box assy.
❽ front panel block
❼ terminal (red)
❼ terminal (black/red)
❹ Remove the panel front assy in the direction of an arrow.
❺ CN1412 (8P)
❻ CN1413 (9P)
❼ terminal (black/red)
❼ terminal (red)
Note 2: When you install the connector, please install them correctly. There is a possibility that this machine damages when not correctly installing it.
OK
Insert is straight to the interior.
connector
connector
NG
Insert is shallow
connector
connector
NG
Insert is incline
connector
connector

2-12. LOUDSPEAKER (20 cm) (SP1, SP2)

Note: It is possible to also remove ones of Lch and Rch.


❶ six screws ((3.5 × 20), tapping)
❹ loudspeaker (20 cm) (SP1)
❺ six screws ((3.5 × 20), tapping)
❽ loudspeaker (20 cm) (SP2)
❷ Remove the loudspeaker (20 cm) (SP1) in the direction of an arrow.
❻ Remove the loudspeaker (20 cm) (SP2) in the direction of an arrow.
❸ terminal (black/white)
❸ terminal (red/white)
❼ terminal (black)
❼ terminal (red)
– Top front view –



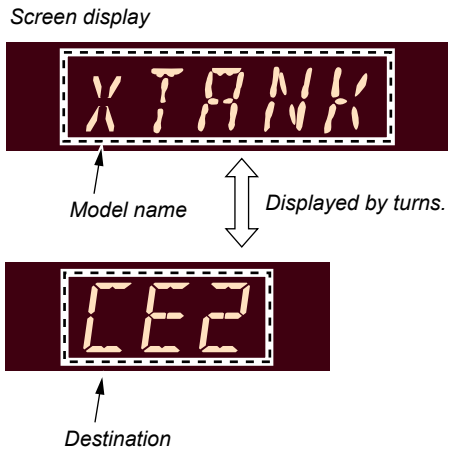
SECTION 3
TEST MODE

[PANEL TEST MODE]

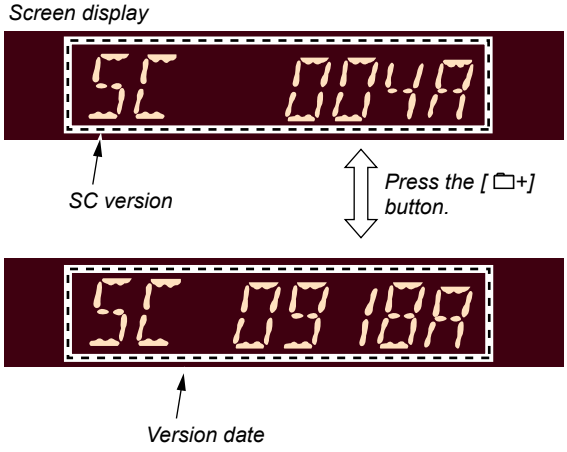
This mode is used to check the liquid crystal display panel, LEDs, keys, [MASTER VOLUME] jog, model, destination and software version.

Procedure:

1. Press [BASS BAZUCA] button and [TUNING +] button simultaneously and hold 3 seconds.
2. All LEDs and segments in liquid crystal display panel are lighted up.
3. When [■] button is pressed after all LEDs and segments in liquid crystal display panel light up, alternate segments in liquid crystal display panel and LEDs would light up. If you press [■] button again, another half of alternate segments in liquid crystal display panel and LEDs would light up. Pressing [■] button again would cause all segments in liquid crystal display panel and LEDs (except Speaker LED – light up BLUE) light up. Liquid crystal display panel will light up 8 character UNION JACK display and all LEDs are OFF if [■] is pressed again.
4. When you want to enter to the software version display mode, press [🗀+] button. The model information appears on the liquid crystal display panel.
   Press [🗀+] button again to view the destination information.
   (Displayed characters/values in the following figure are example)



5. During the destination information display, press [🗀+] button. Each time [🗀+] button is pressed, the liquid crystal display panel shows the version of each category software in the following sequence: SC, UI, PF, SYS, M1, M2, I1, I2, ST, TA, TAS, TM, BTM, BT, NFC and return back to model information display.
   (Displayed characters/values in the following figure are example)



6. When [FUNCTION] button is pressed while the version numbers are being displayed except model and destination, the date of the software creation appears. When [FUNCTION] button is pressed again, the display returns to the software version display.
7. Press [🗀-] button, the key check mode is activated.
8. In the key check mode, the liquid crystal display panel displays "K 0 V0".
   Each time a button is pressed, "K" value increases. However, once a button has been pressed, it is no longer taken into account.
   "V" value increases in the manner of 0, 1, 2, 3 ... if [MASTER VOLUME] knob is turned clockwise, or it decreases in the manner of 0, 9, 8, 7 ... if [MASTER VOLUME] knob is turned counterclockwise.
9. To release from this mode, press two buttons in the same manner as step 1, or disconnect the power cord.

[COLD RESET]

The cold reset clears all data including preset data stored in the data flash to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press [TUNING +] button and [I/⏻] button simultaneously for 3 seconds.
2. "COLD RST" appears on the liquid crystal display panel. After that, the liquid crystal display panel becomes blank for a while, and the system is reset.

[HISTORY MODE]

This mode is used to check important data stored in the system when PROTECTOR happen.

Procedure:

1. During demo mode, press [LED SPEAKER] button and [▶II] for 5 seconds to mode in to history mode.
2. Press the [TUNING +/▶▶ ▶▶I] or [TUNING -/◀◀ I◀◀] button to check history data stored.

Item	Display							
Protector Count	P	C	O	U	N	T	※	※
Protector Type (refer protector kind test mode) Protector type / Protector Error Code AMPL / E01 PWR1 / E02 PWR2 / E03	P	T			※	※	※	※
Single Power On Time	1	*h	*h	*h	*h	*h	*m	*m
Total Power On Time	2	*h	*h	*h	*h	*h	*m	*m
Input Function	F		※	※	※	※	※	※
Volume	V	O	L			※	※	※
Actual Attenuation	A	T	T			※	※	※
Low EQ Level	L	O	W			※	※	※
Mid EQ Level	M	I	D			※	※	※
High EQ Level	H	I	G	H		※	※	※
VACS Level	V	A	C	S			※	※
AP VACS Level	A	P	V	A	C	S		※
Surround Setting	S	U	R	R		※	※	※
DJ Effect Setting	D	J	※	※	※		※	※
Bass Bazuca Setting	B	A	S	S		※	※	※
Vertical Sound Setting	V	E	R	T		※	※	※
PARTY CHAIN	P	C	H			※	※	※

- To release from History Mode.
  To release from this mode, press [I/⏻] button.

[PROTECTOR TEST DISPLAY TEST MODE]

This mode is used to check types of protect occurred during protector on.

Procedure:

1. During protection on, liquid crystal display panel shows blinking message “PROTECT EXX”.
   “EXX” – represent the error code.
2. Press [FUNCTION] button and [▶II] button simultaneously.
3. Liquid crystal display panel display will toggle between “PROTECT” message & protector kind message display. Bellow table explains on protector kind.

Error Code	Protector Message	Description
E01	“AMP”	Defect of AMP circuit
E02	“PWR SUP1”	Defect of power supply circuit to AMP
E03	“PWR SUP2”	Defect of USB port or iPod/iPhone connector.

- To release from this mode.
  Press [FUNCTION] button and [▶II] button simultaneously again or unplug and re-plug in the power cord.

1. Defect of AMP circuit

1-1. If PROTECT mode is “AMP”,

The following defect might be possible.

Defects	Possible cause
OTP (Over Temperature Protection)	Unusual heat up of AMP IC by improper assembly of heatsink, etc..
OCP (Over Current Protection)	The overcurrent condition to DAMP IC occurs by defect of DAMP IC or defect of PS output line.
DC Detection	DC appears in SP terminal by defect of AMP IC or output is short-circuit.

1-2. If speaker does not have output even if the set status is not in PROTECT mode

The following defect might be possible.

Defects	Possible cause
Under Voltage	IC701 output is below 12V.
RESET defect	Reset signal status from micon is not 'H' .

2. Defect of power supply circuit to AMP

2-1. If the PROTECT mode is “PWR SUP1”,

There is possibility of unusual power supply of any of the AMP IC, IC812 (6V regulator from SMPS supply) or fan is blocked.

3. Defect of iPod/iPhone connector or USB port

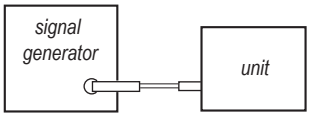
3-1. If the PROTECT mode is “PWR SUP2”,

There is possibility of the USB port or iPod/iPhone connector is short-circuited.

- To release from this mode.
  Press [FUNCTION] button and [▶II] button simultaneously again or unplug and re-plug in the power cord.

SECTION 4
ELECTRICAL CHECK

FM TUNER LEVEL CHECK



Procedure :

1. Turn the power on.
2. Input the following signal from Signal Generator to FM antenna input directly.

Carrier frequency : A = 87.5 MHz, B = 98 MHz, C = 108 MHz
Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

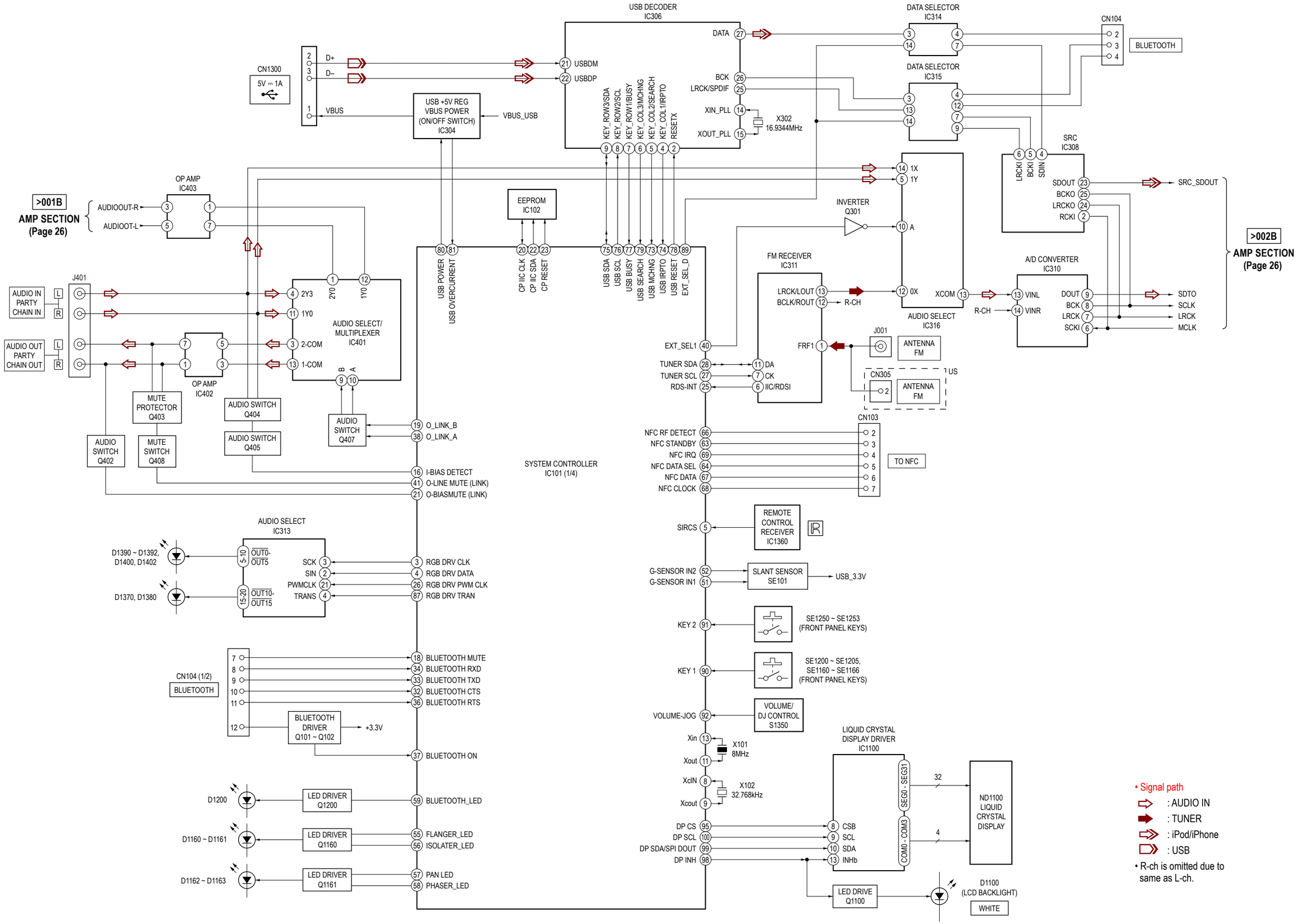
Note: Use 75 ohm coaxial cable to connect signal generator and the unit.
You cannot use video cable for checking.
Use signal generator whose output impedance is 75 ohm.

3. Set to FM tuner function and tune A, B and C signals.
4. Confirm “TUNED” is lit on the display for A, B and C signals.

When the selected station signal is received in good condition, “TUNED” is displayed.

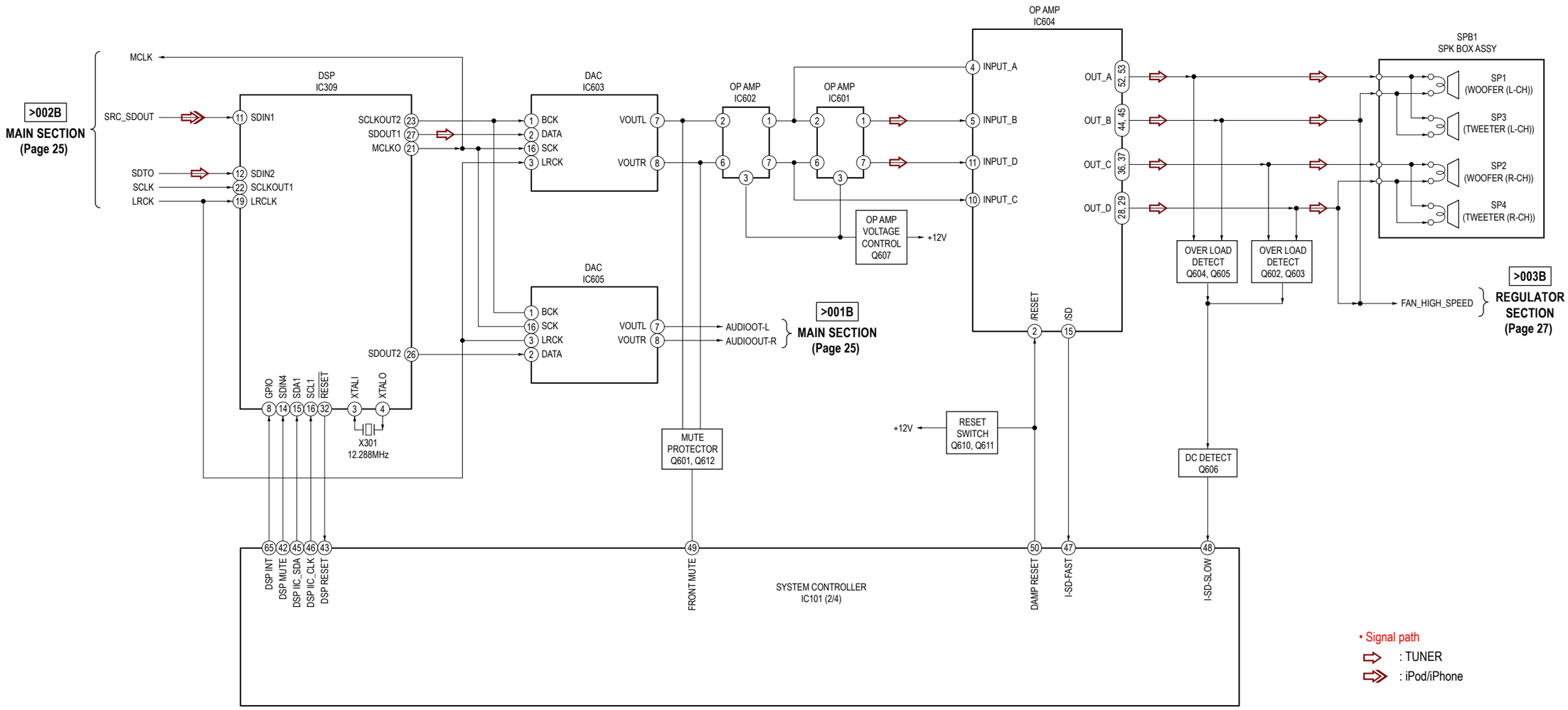
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM - MAIN Section -

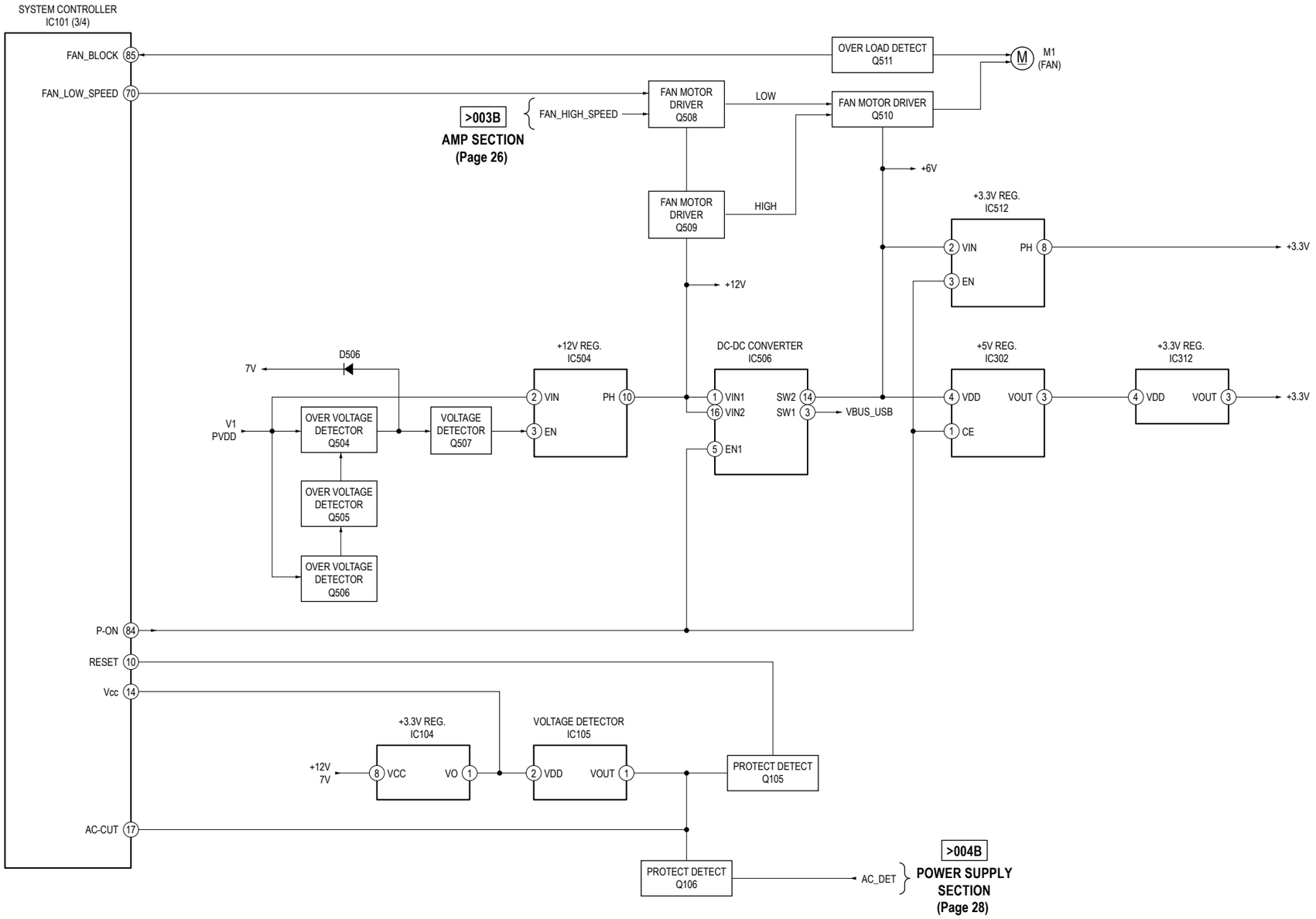


- Signal path
  - ⇨ : AUDIO IN
  - ➡ : TUNER
  - ⇨ : iPod/iPhone
  - ⇨ : USB
- R-ch is omitted due to same as L-ch.

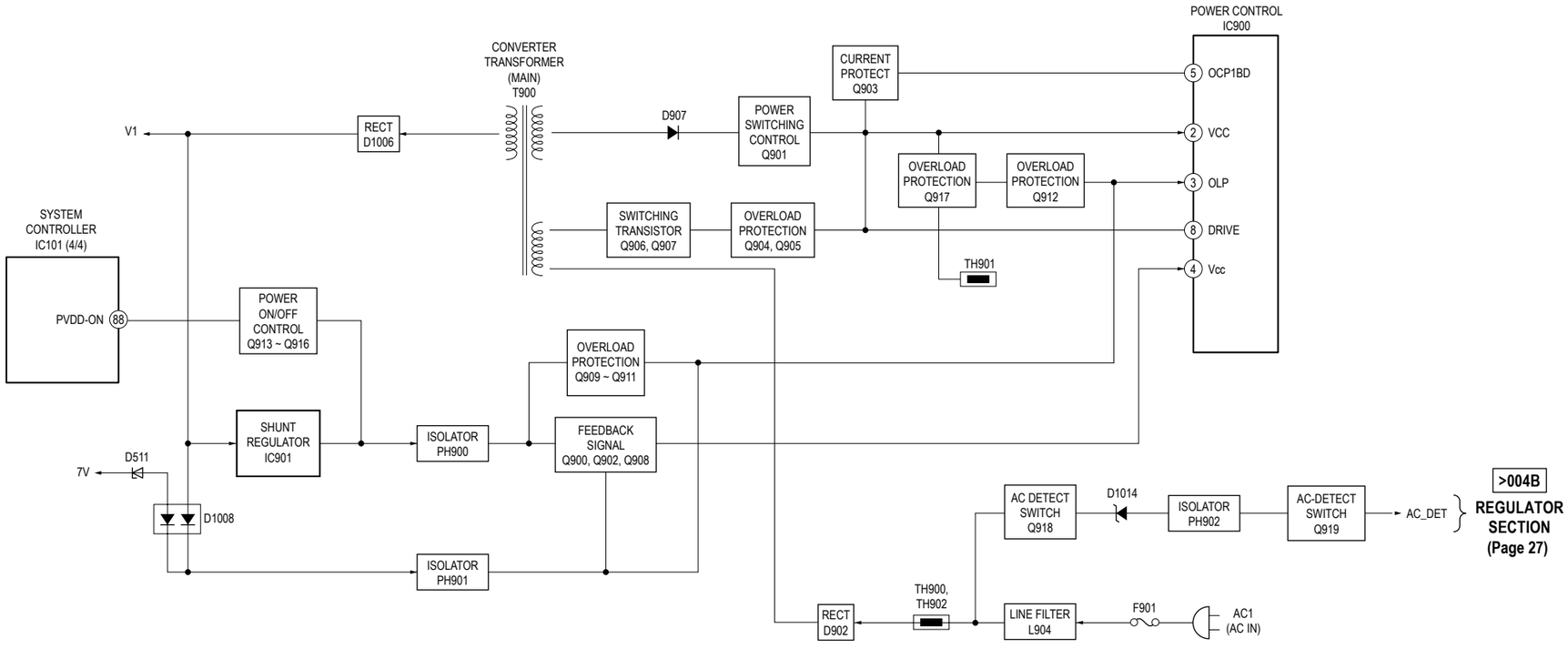
5-2. BLOCK DIAGRAM - AMP Section -



5-3. BLOCK DIAGRAM - REGULATOR Section -



5-4. BLOCK DIAGRAM - POWER SUPPLY Section -



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

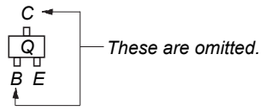
For Printed Wiring Boards.

Note:

- ○——: Parts extracted from the component side.
- ——: Parts extracted from the conductor side.
- △ : Internal component.
- ▬: Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:
Pattern face side: (Conductor Side) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side) Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E2 : 120 V AC area in E model
  E12 : 220 – 240 V AC area in E model
  E51 : Chilean, Peruvian and PX models
  MX : Mexican model
  MY : Malaysia model
  RU : Russian model

Note 1: When the MAIN board is replaced, spread the compound referring to "NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD" on servicing notes (page 4).

Note 2: When the MAIN board is replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

For Schematic Diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- : Nonflammable resistor.
- : Fusible resistor.
- : Panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

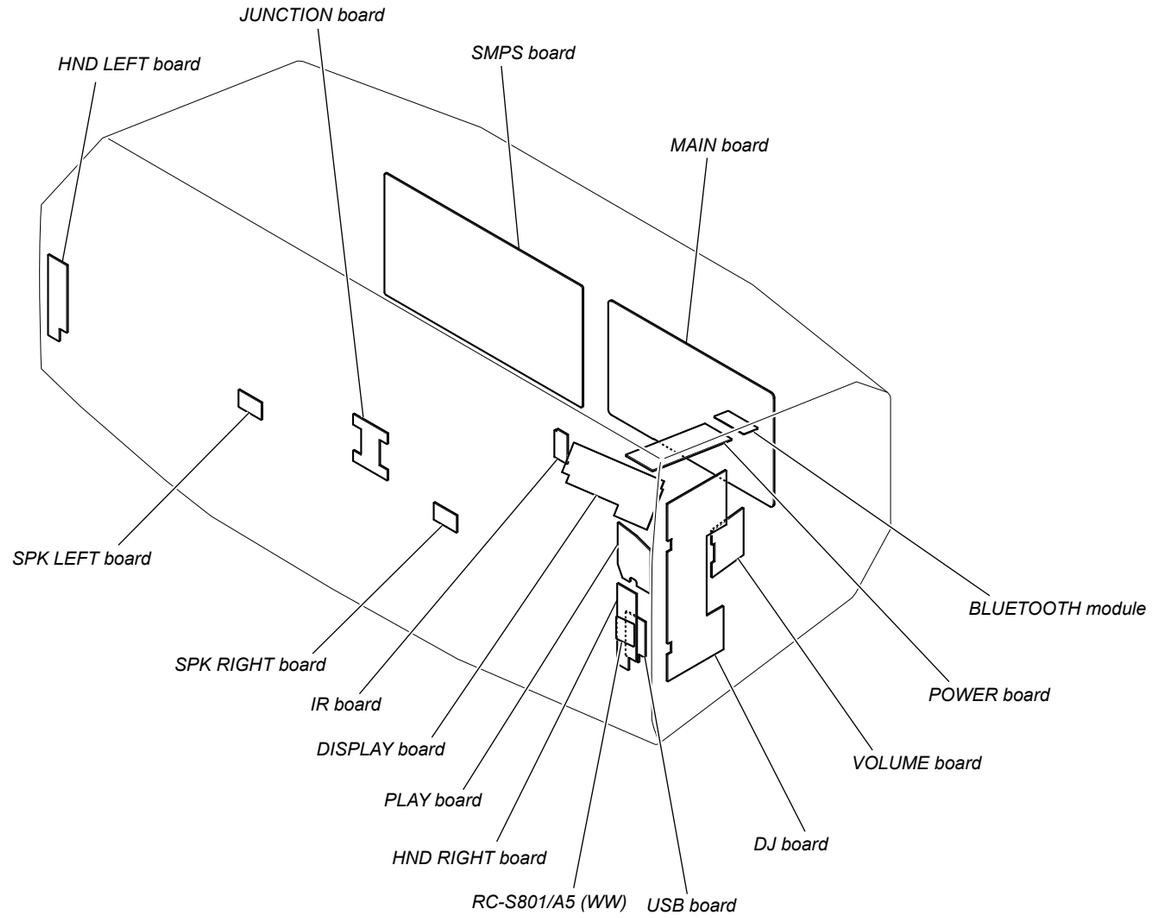
- ▬: B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER
  ( ): iPod/iPhone
  < >: DVD/PC IN
  * : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER
  : iPod/iPhone
  : USB
  : DVD/PC IN

- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E2 : 120 V AC area in E model
  E12 : 220 – 240 V AC area in E model
  E51 : Chilean, Peruvian and PX models
  MX : Mexican model
  MY : Malaysia model
  RU : Russian model

Note 1: When the MAIN board is replaced, spread the compound referring to "NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD" on servicing notes (page 4).

Note 2: When the MAIN board is replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

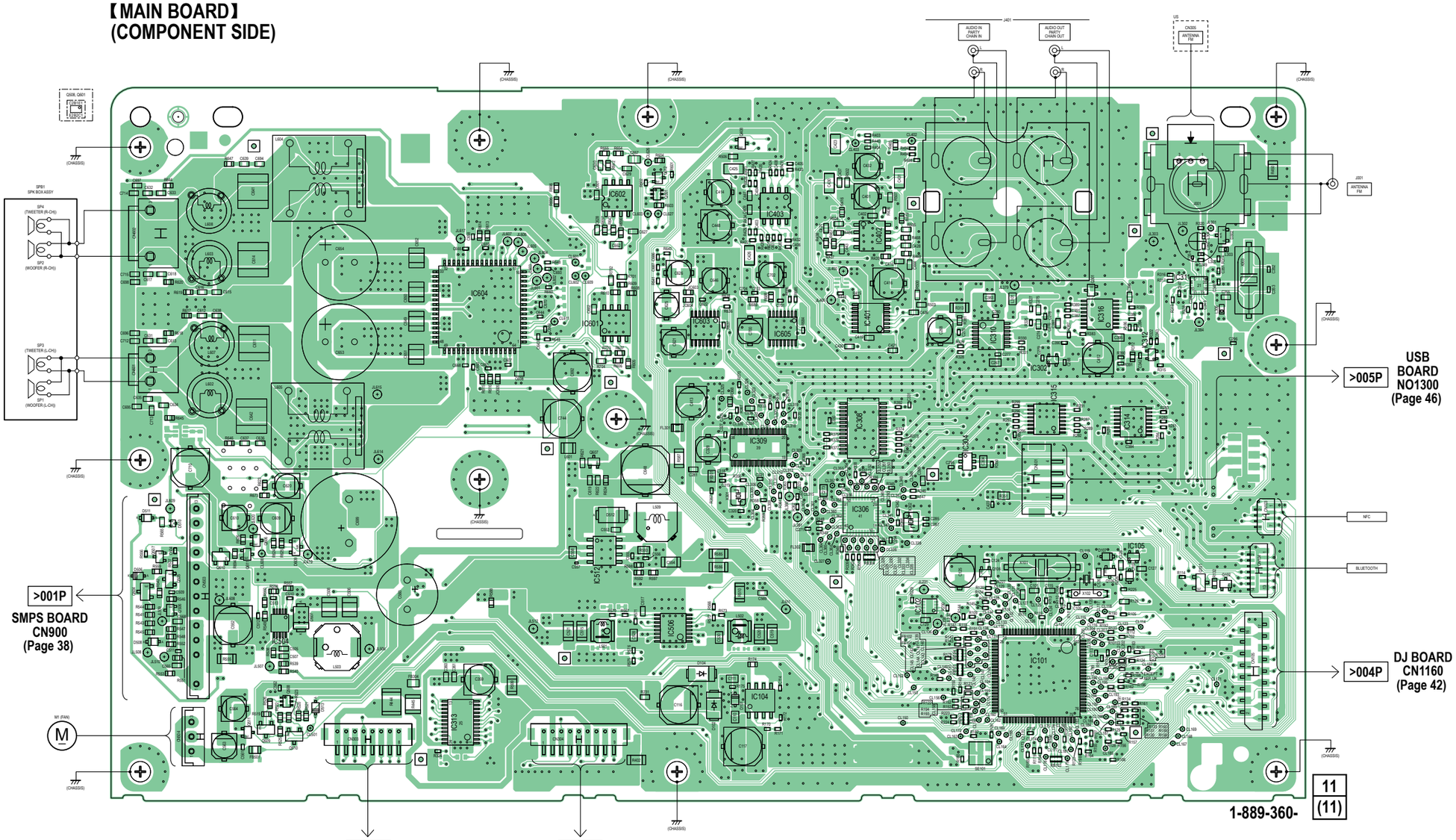
- **Circuit Boards Location**



5.5. PRINTED WIRING BOARD - MAIN Board (Component Side) -

• See page 29 for Circuit Boards Location. • : Uses unleaded solder.

【MAIN BOARD】
(COMPONENT SIDE)



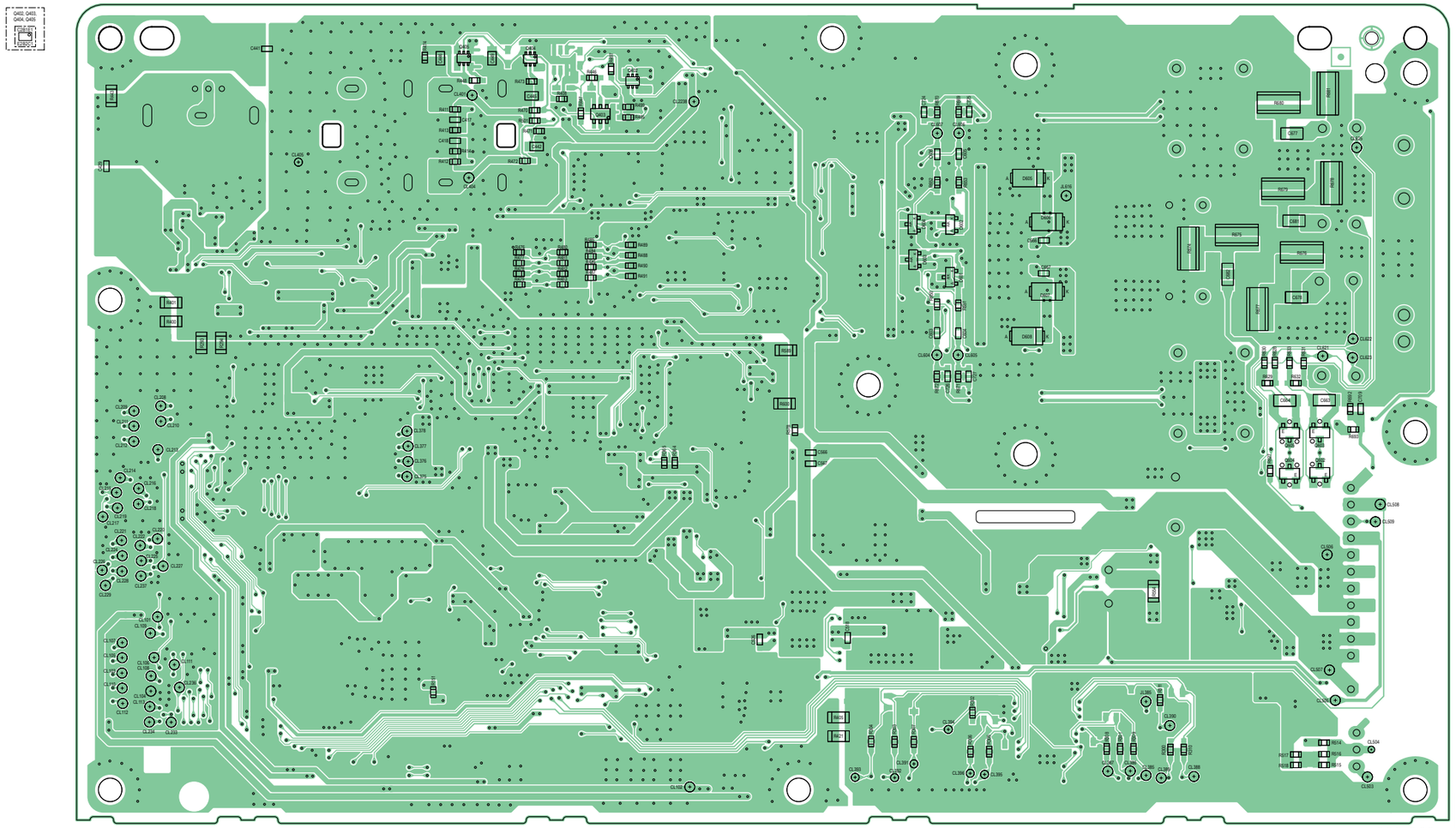
5-6. PRINTED WIRING BOARD - MAIN Board (Conductor Side) -

• See page 29 for Circuit Boards Location. • : Uses unleaded solder.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A B C D E F G H I J K

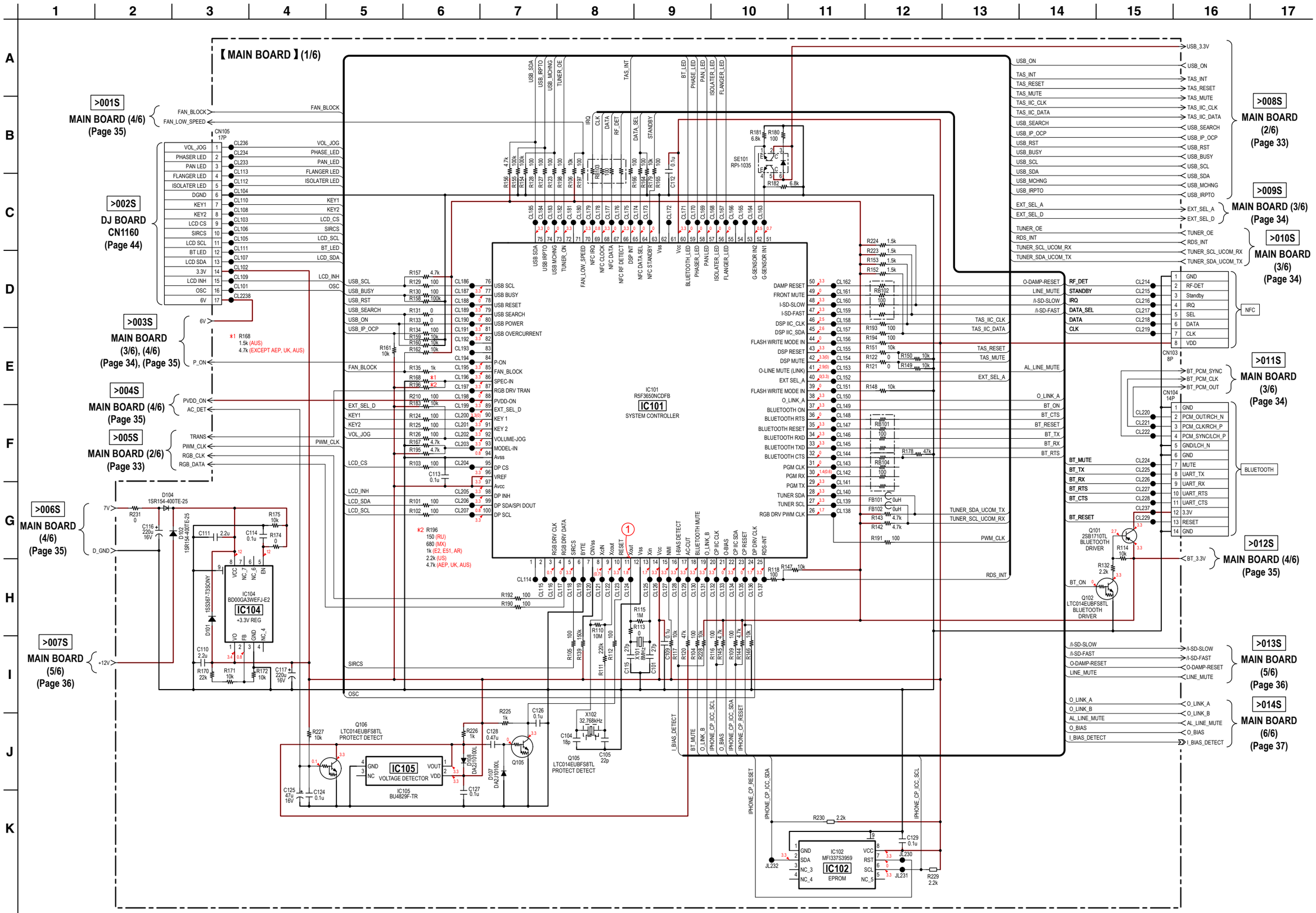
【MAIN BOARD】
(CONDUCTOR SIDE)



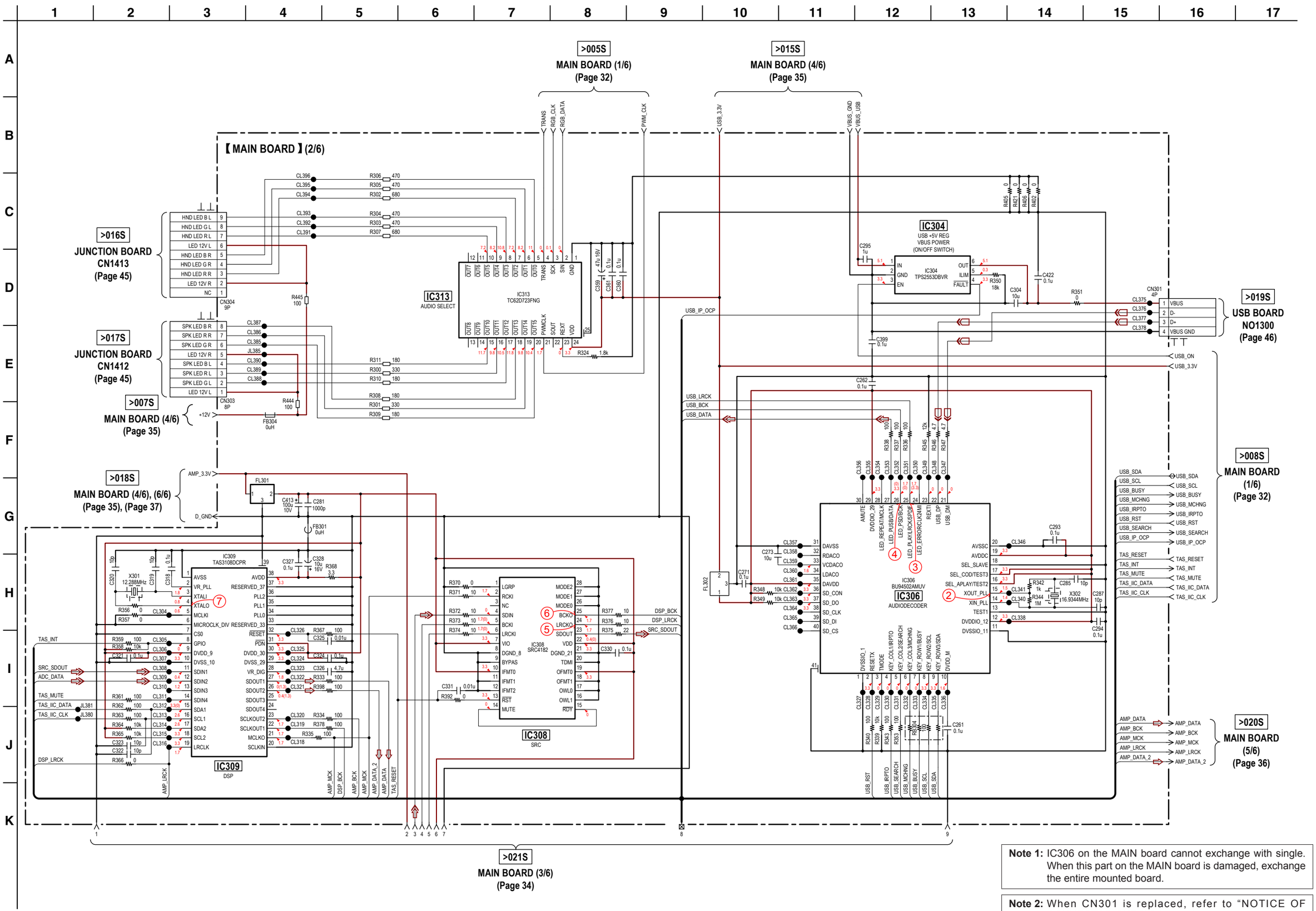
1-889-360-

11
(11)

5-7. SCHEMATIC DIAGRAM - MAIN Board (1/6) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams. • See page 55 for IC Pin Function Descriptions.



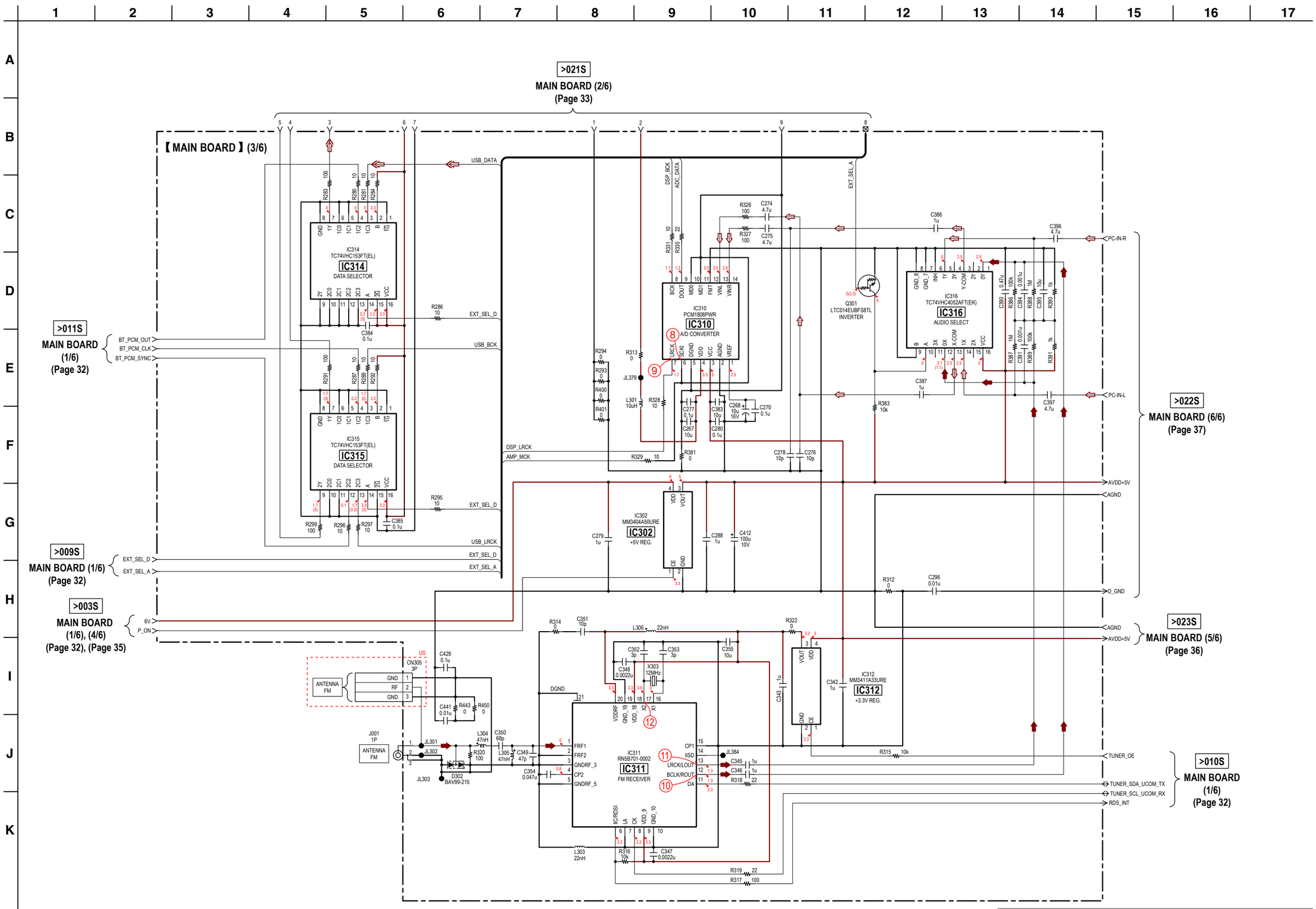
5-8. SCHEMATIC DIAGRAM - MAIN Board (2/6) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams.



Note 1: IC306 on the MAIN board cannot exchange with single. When this part on the MAIN board is damaged, exchange the entire mounted board.

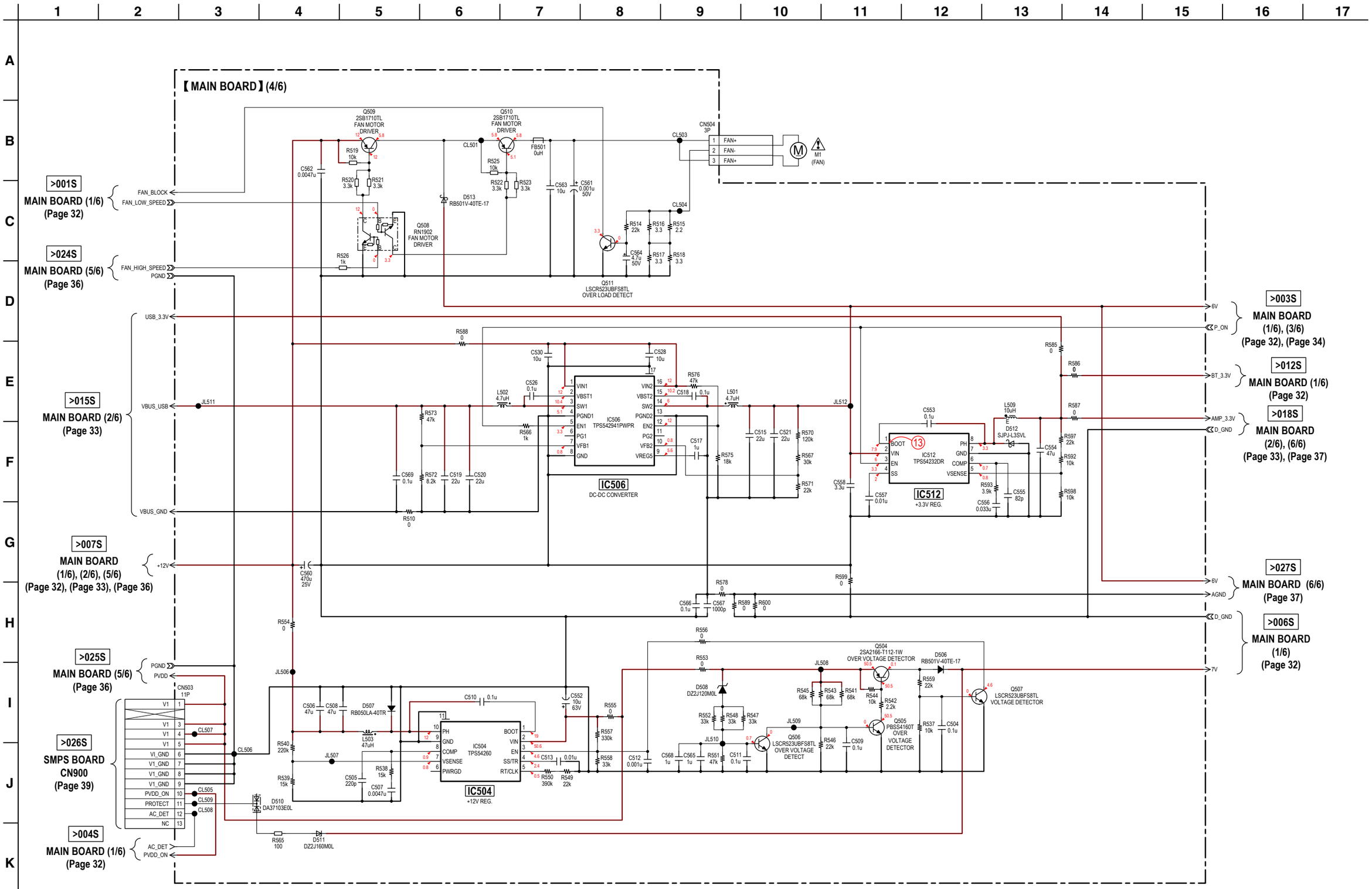
Note 2: When CN301 is replaced, refer to "NOTICE OF CONNECTOR CHECK" (page 4).

5-9. SCHEMATIC DIAGRAM - MAIN Board (3/6) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams.



Note: IC311 on the MAIN board cannot exchange with single. When this part on the MAIN board is damaged, exchange the entire mounted board.

5-10. SCHEMATIC DIAGRAM - MAIN Board (4/6) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams.



Note 1: When the C560 on the MAIN board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

Note 2: IC506 on the MAIN board cannot exchange with single. When this part on the MAIN board is damaged, exchange the entire mounted board.

5-11. SCHEMATIC DIAGRAM - MAIN Board (5/6) - • See page 46 for Waveforms. • See page 47 for IC Block Diagrams.

【MAIN BOARD】(5/6)

>020S MAIN BOARD (2/6) (Page 33)

>023S MAIN BOARD (3/6) (Page 34)

>013S MAIN BOARD (1/6) (Page 32)

>028S MAIN BOARD (6/6) (Page 37)

>024S MAIN BOARD (4/6) (Page 35)

>007S MAIN BOARD (1/6) (Page 32)

>025S MAIN BOARD (4/6) (Page 35)

IC603 PCM1754DBQR DAC

IC605 PCM1754DBQR DAC

IC601 BA4558F OP AMP

IC602 BA4558F OP AMP

IC604 TAS5630BPHDR POWER AMP

Q601 XP4501 MUTE PROTECTOR

Q612 LTA014EUBFS8TL MUTE PROTECTOR

Q607 LSCR523UBFS8TL OP AMP VOLTAGE CONTROL

Q606 LSCR523UBFS8TL OVER LOAD DETECT

Q602 ~ Q605 2SA1162-G OVER LOAD DETECT

Q610 2SB1710TL RESET SWITCH

Q611 LSCR523UBFS8TL RESET SWITCH

SPB1 SPK BOX ASSY

SP1 (WOOFER (L-CH))

SP2 (WOOFER (R-CH))

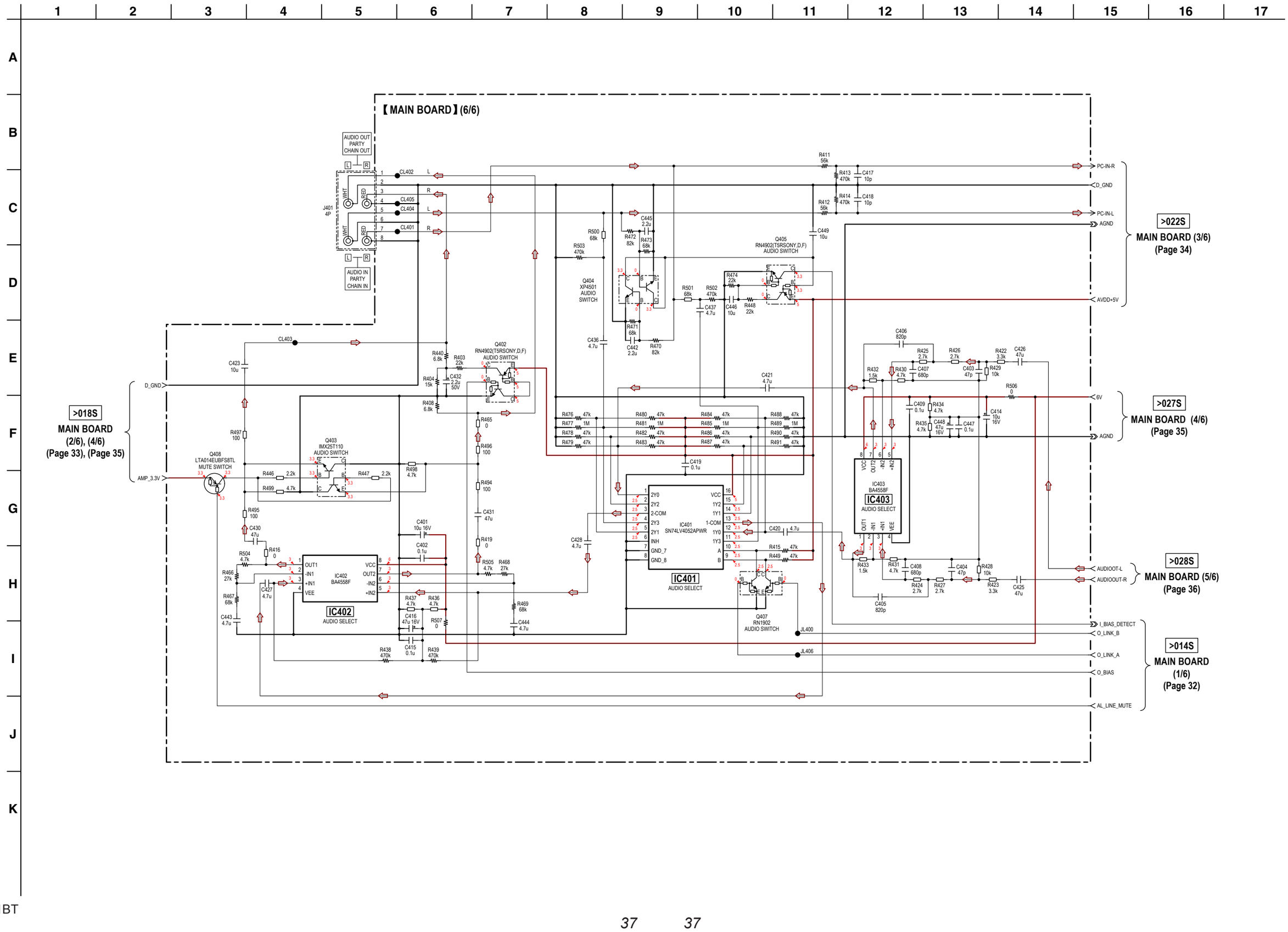
SP3 (TWEETER (L-CH))

SP4 (TWEETER (R-CH))

Note 1: When the IC604 on the MAIN board is replaced, spread the compound referring to "NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD" on servicing notes (page 4).

Note 2: When the C653, C654 and C699 on the MAIN board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

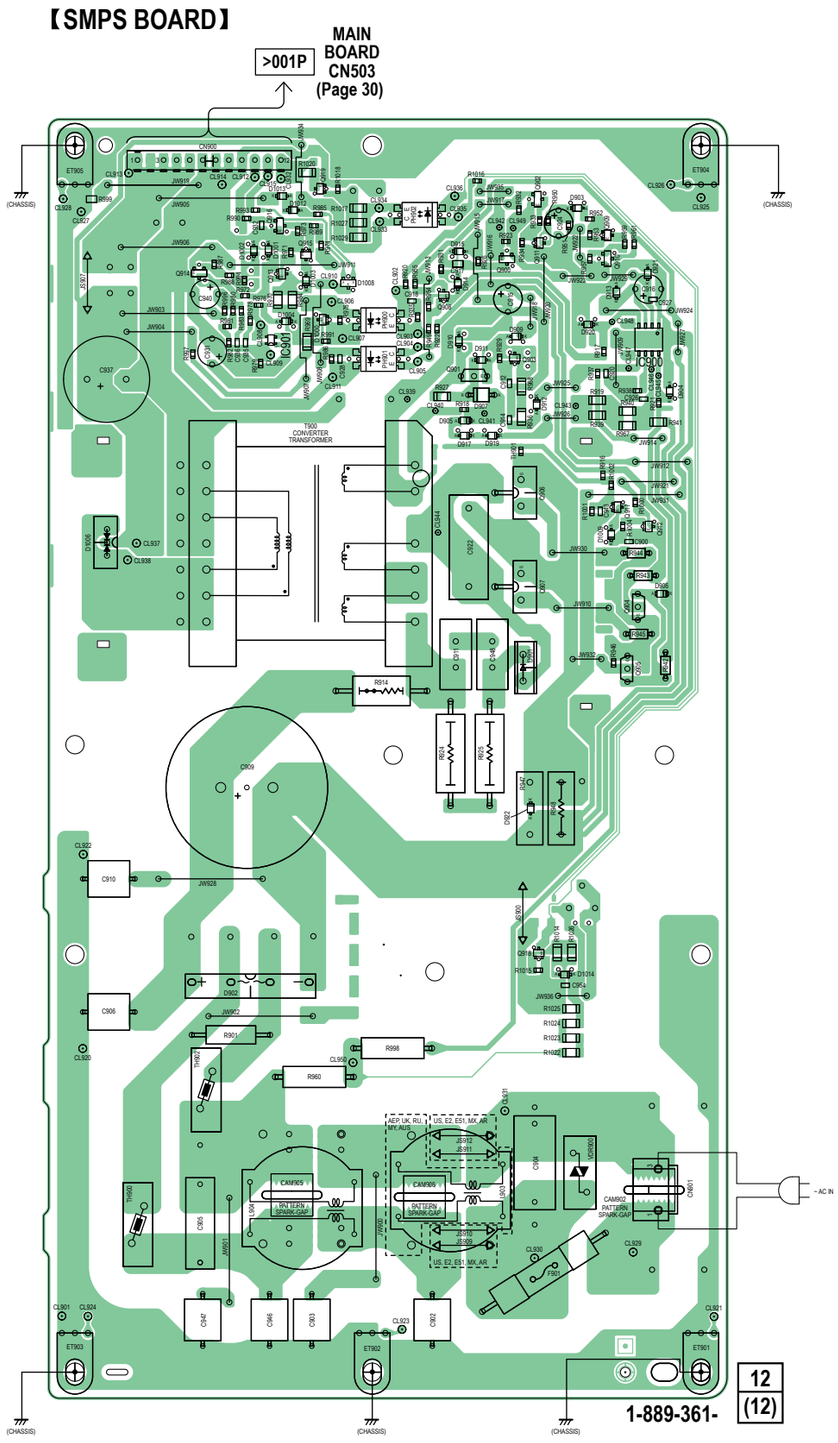
5-12. SCHEMATIC DIAGRAM - MAIN Board (6/6) - • See page 47 for IC Block Diagrams.



5-13. PRINTED WIRING BOARD - SMPS Board -

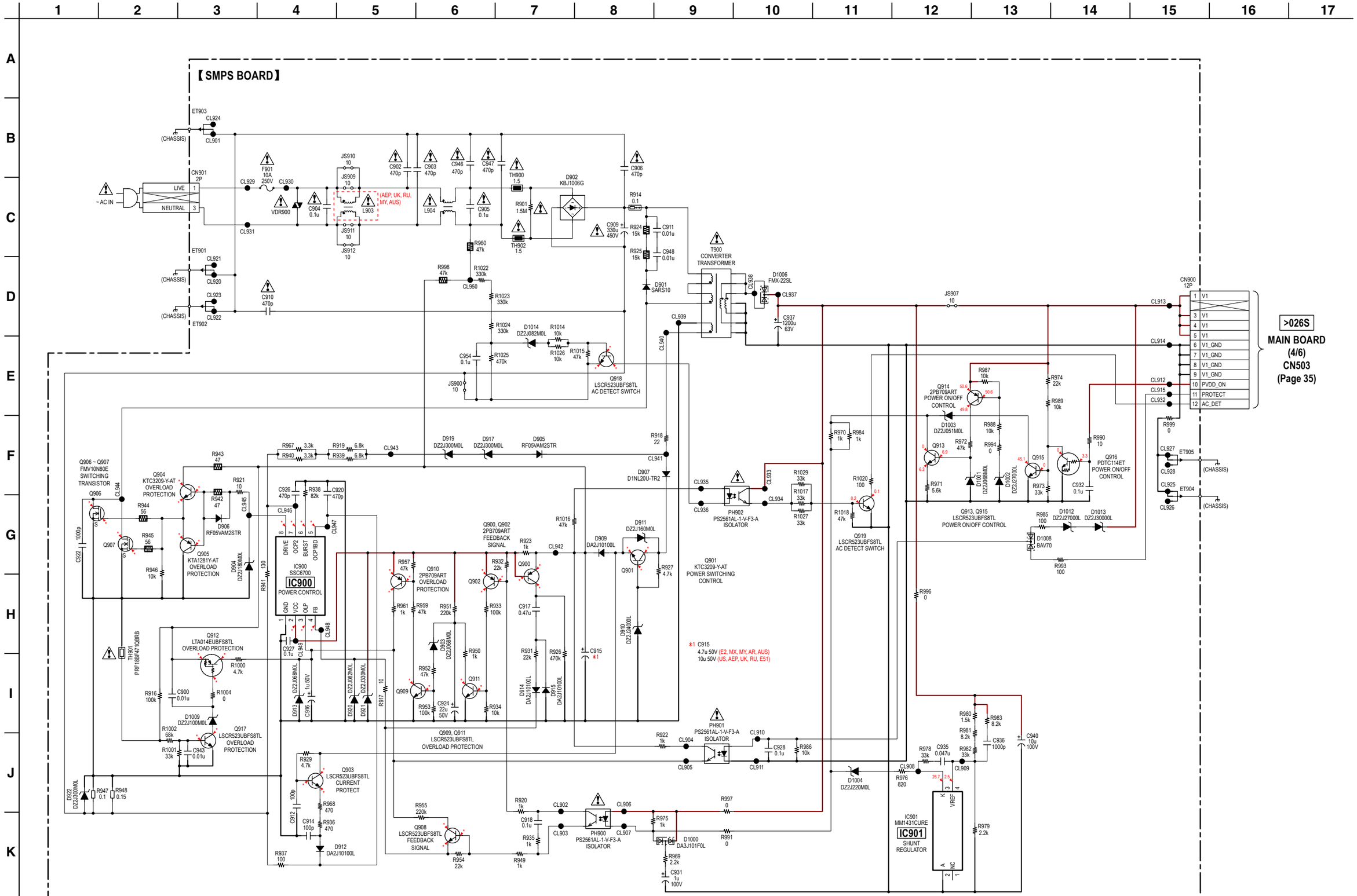
• See page 29 for Circuit Boards Location. • : Uses unleaded solder.

【SMPS BOARD】



Note: When the C904, C911, C931, C937, C948, R942, R943, R944, R945, R947, R948, Q904, Q905 and VDR900 on the SMPS board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

5-14. SCHEMATIC DIAGRAM - SMPS Board - • See page 47 for IC Block Diagrams.

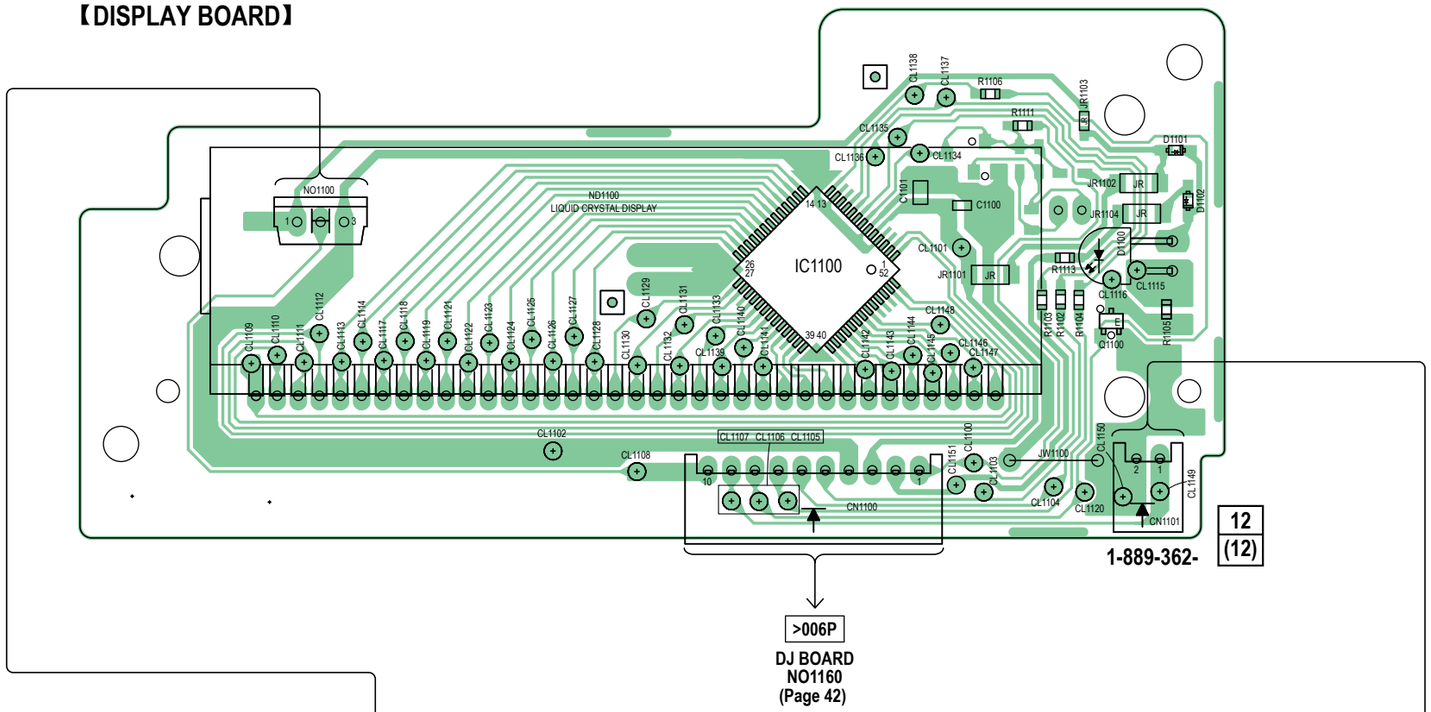


Note: When the C904, C911, C931, C937, C948, R942, R943, R944, R945, R947, R948, Q904, Q905 and VDR900 on the SMPS board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

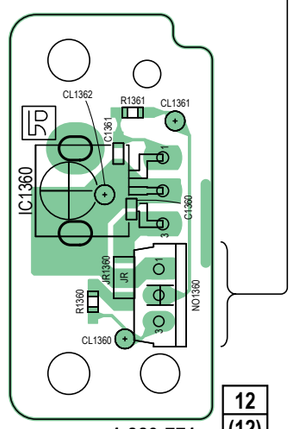
5-15. PRINTED WIRING BOARDS - PANEL Section -

• See page 29 for Circuit Boards Location. • : Uses unleaded solder.

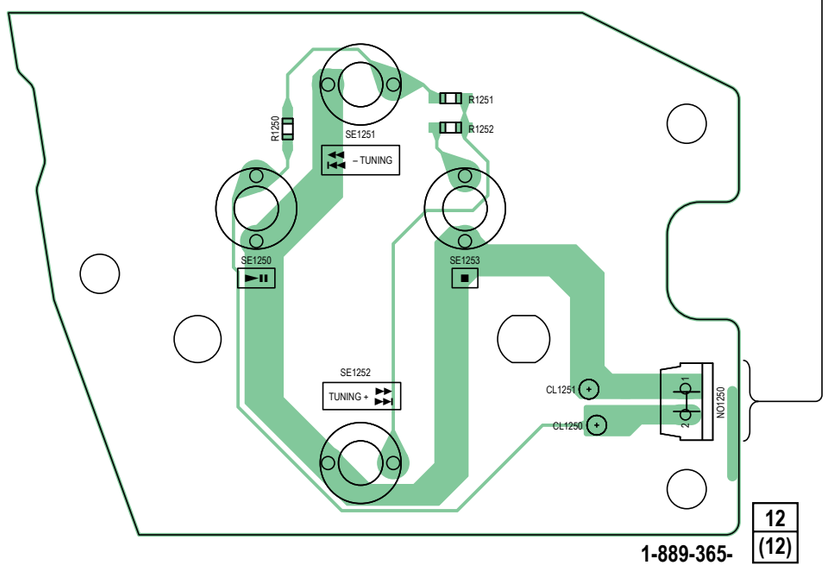
【DISPLAY BOARD】



【IR BOARD】



【PLAY BOARD】



5-16. SCHEMATIC DIAGRAM - PANEL Section -

• See page 46 for Waveforms. • See page 47 for IC Block Diagrams.

【DISPLAY BOARD】

【IR BOARD】

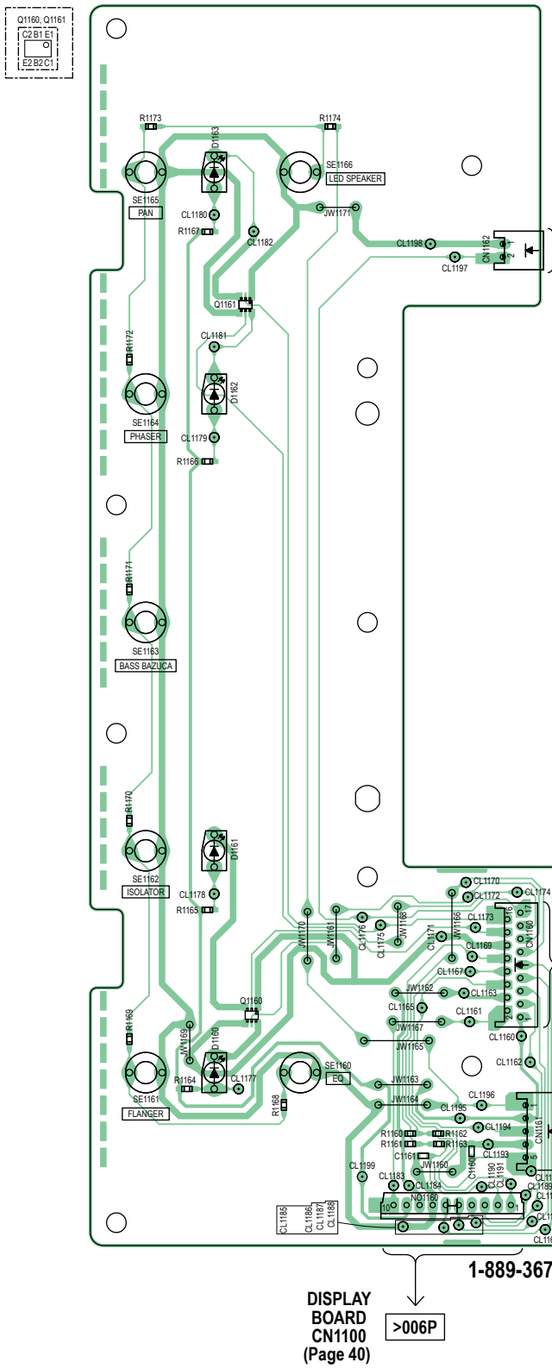
【PLAY BOARD】

>027S
DJ BOARD
NO1160
(Page 44)

5-17. PRINTED WIRING BOARDS - AUDIO INPUT Section (1/2) -

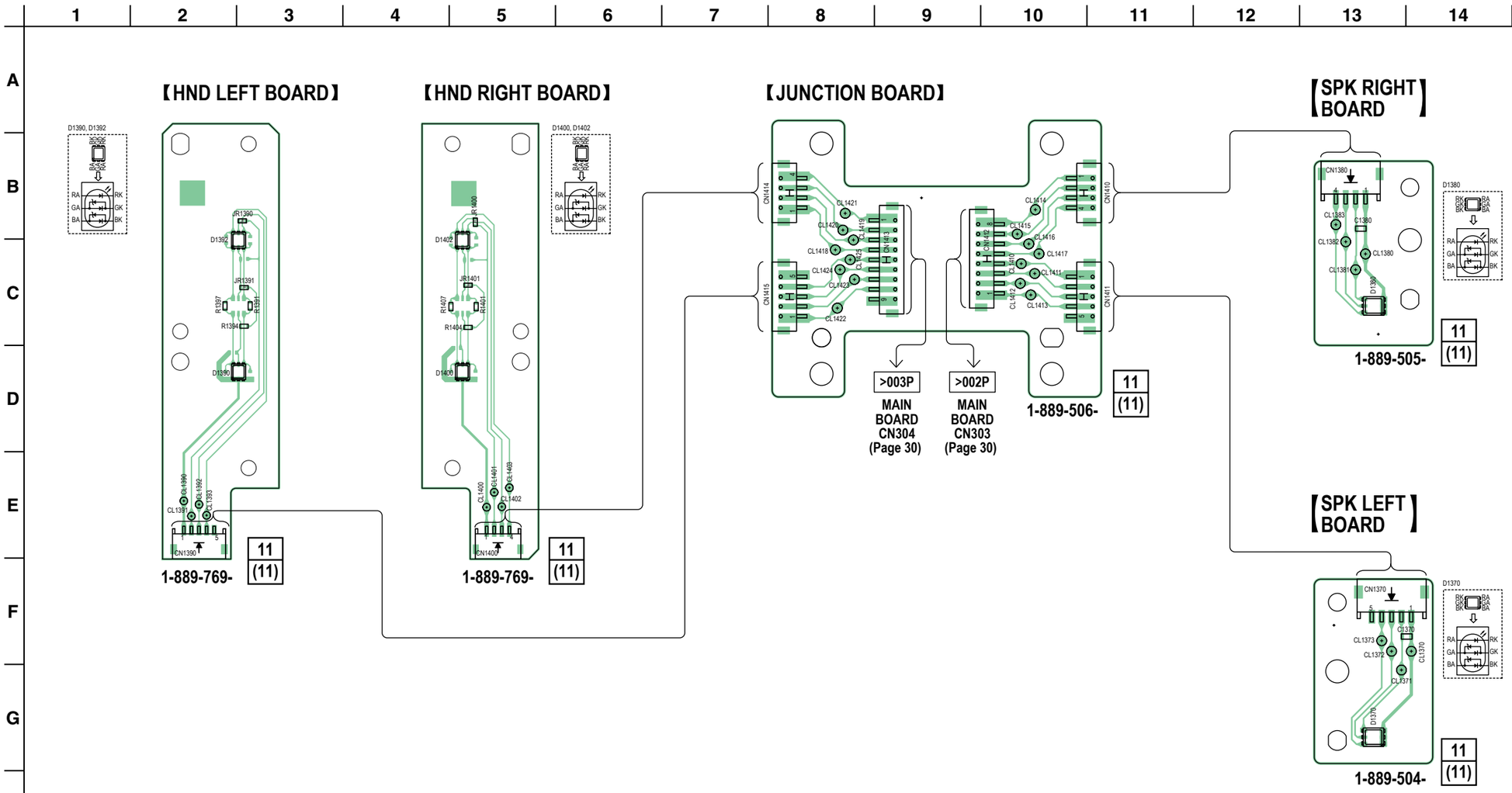
• See page 29 for Circuit Boards Location. • : Uses unleaded solder.

【DJ BOARD】



5-18. PRINTED WIRING BOARDS - AUDIO INPUT Section (2/2) -

• See page 29 for Circuit Boards Location. • : Uses unleaded solder.



5-19. SCHEMATIC DIAGRAM - AUDIO INPUT Section (1/2) -

【POWER BOARD】

R1205 2.2k
R1204 1.5k
R1203 1.5k
R1202 1k
R1201 680

SE1205 FUNCTION
SE1204 +
SE1203 –
SE1202 PARTY CHAIN
SE1201 I/⏻
SE1200 BLUETOOTH CONNECTION/ ➡PAIRING

CN1200 5P
CL1200 1 KEY1_1
CL1201 2 GND
CL1202 3 BT_LED
CL1203 4 6V
CL1204 5 KEY1_2

Q1200 LTC023JUBFS8TL LED DRIVER
CL1206
D1200 1L0352B13F0MIT02
CL1205
R1200 220

【DJ BOARD】

NO1160 10P
CL1183 10 OSC
CL1199 9 6V
CL1184 8 E3.3V
CL1185 7 D-GND
CL1186 6 LCD_CS
CL1187 5 LCD_SCL
CL1188 4 LCD_SDA
CL1189 3 LCD_INH
CL1190 2 KEY2
CL1191 1 SIRCS

>027S
DISPLAY BOARD
CN1100
(Page 41)

R1161 15k
R1163 470
R1160 15k
C1161 0.1u
R1162 470

CN1160 17P
6V 1 CL1160
OSC 2 CL1161
LCD_INH 3 CL1162
E3.3V 4 CL1163
LCD_SDA 5 CL1164
BT_LED 6 CL1165
LCD_SCL 7 CL1166
SIRCS 8 CL1167
LCD_CS 9 CL1168
KEY 2 10 CL1169
KEY1 11 CL1170
D-GND 12 CL1171
ISOLATOR_LED 13 CL1172
FLANGER_LED 14 CL1173
PAN_LED 15 CL1174
PHASERR_LED 16 CL1175
VOL_JOG 17 CL1176

>002S
MAIN BOARD
(1/6)
CN105
(Page 32)

CN1161 5P
CL1192 5 KEY1_1
CL1193 4 GND
CL1194 3 BT_LED
CL1195 2 6V
CL1196 1 KEY1_2

R1168 33k
R1169 22k
R1170 15k
R1171 10k
R1172 6.8k
R1173 4.7k
R1174 3.3k

SE1160 EQ
SE1161 FLANGER
SE1162 ISOLATOR
SE1163 BASS BAZUCA
SE1164 PHASER
SE1165 PAN
SE1166 LED SPEAKER

C1160 0.1u

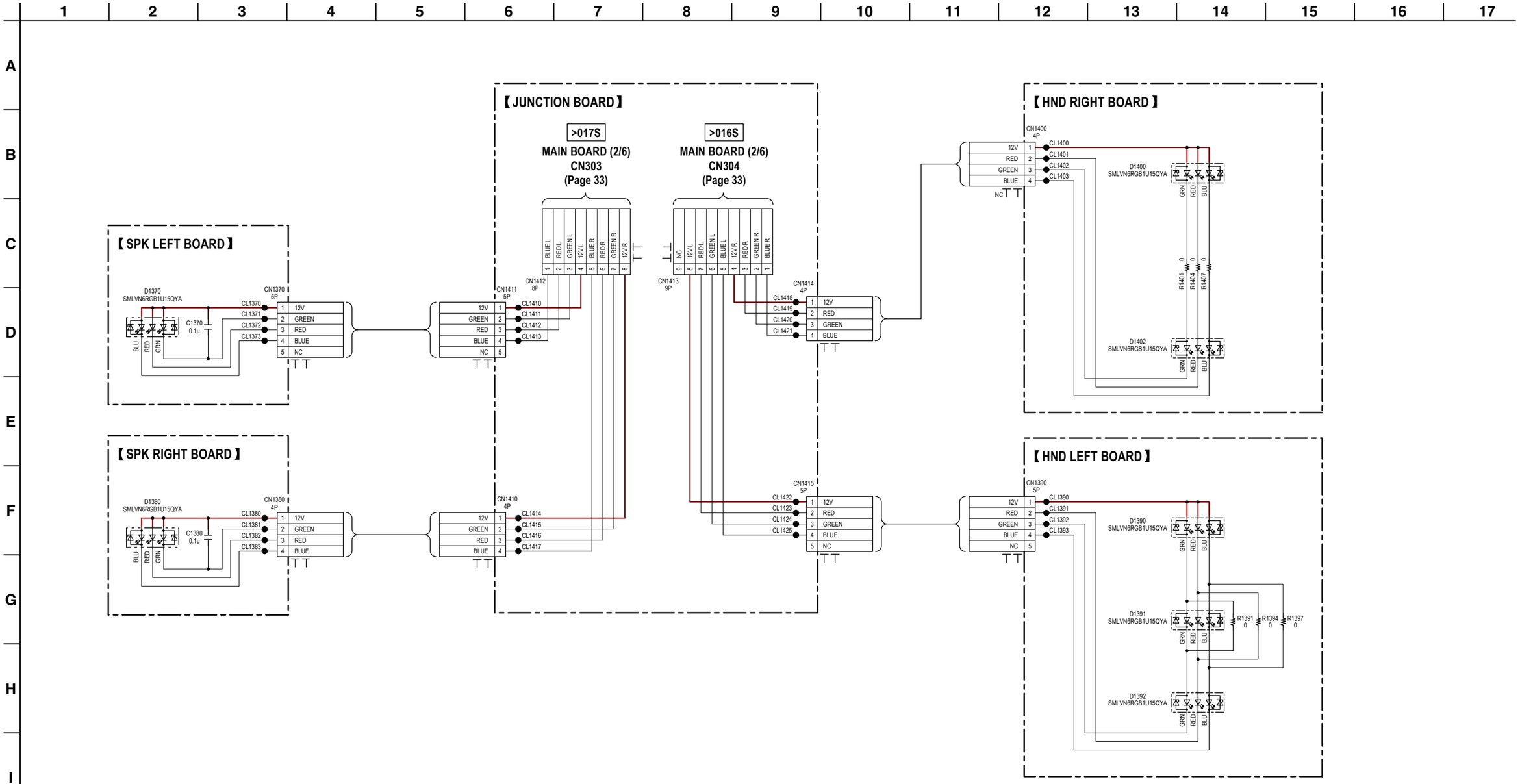
CN1162 2P
CL1197 2 VOL_JOG
CL1198 1 GND

CL1177
R1164 220
D1160 1L0353W61B3MKT01
Q1160 RN1905 LED DRIVER
CL1178
R1165 220
D1161 1L0353W61B3MKT01
CL1179
R1166 220
D1162 1L0353W61B3MKT01
CL1181
Q1161 RN1905 LED DRIVER
R1167 220
CL1180
D1163 1L0353W61B3MKT01
CL1182

【VOLUME BOARD】

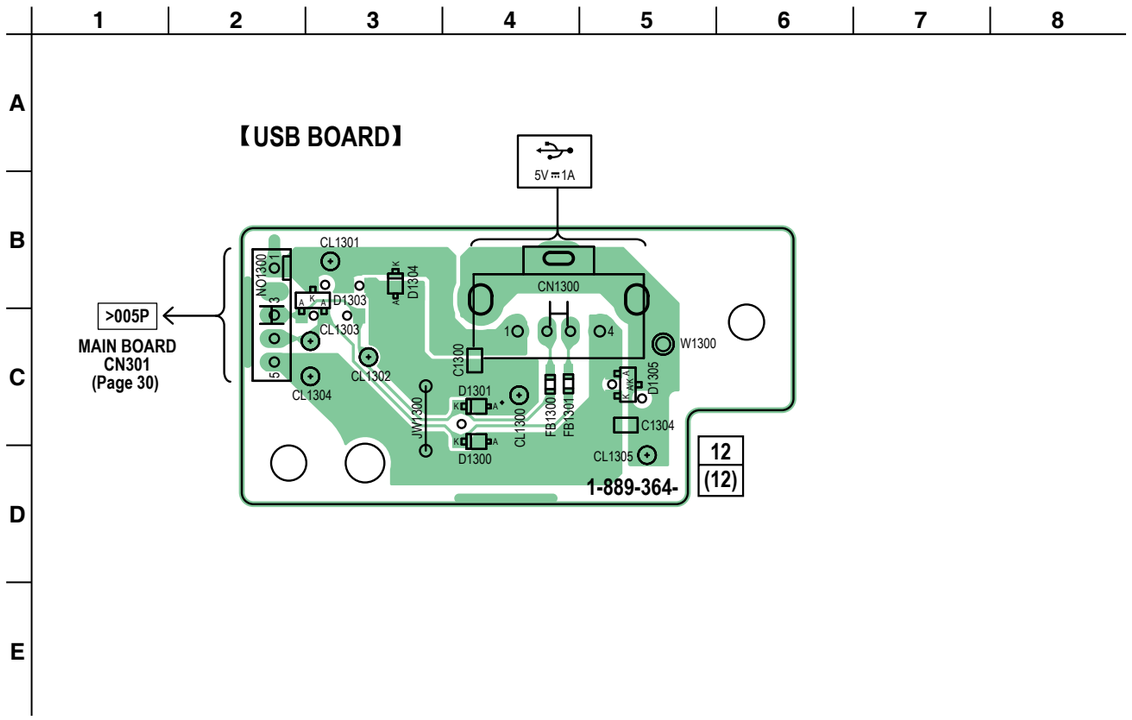
NO1350 2P
VOL_JOG 1 CL1350
GND 2 CL1351
C1350 0.001u
S1350 VOLUME/ DJ CONTROL
CL1352
R1350 10k

5-20. SCHEMATIC DIAGRAM - AUDIO INPUT Section (2/2) -

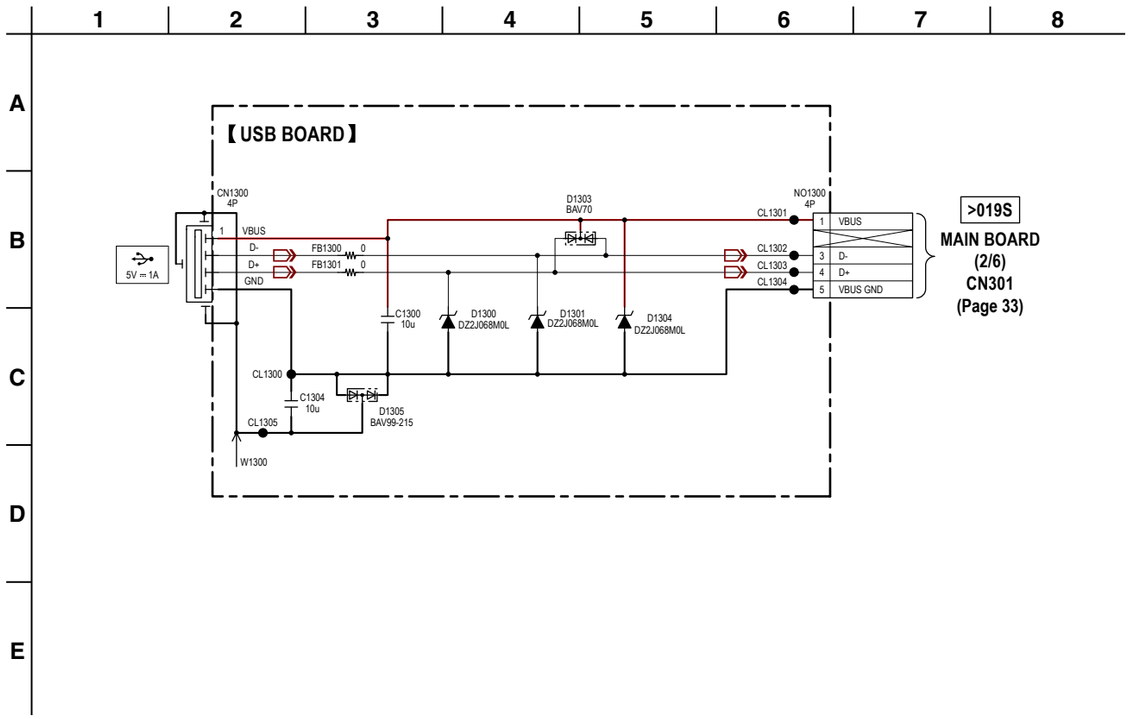


5-21. PRINTED WIRING BOARD - USB Board -

• See page 29 for Circuit Boards Location. • : Uses unleaded solder.



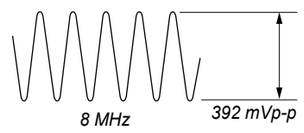
5-22. SCHEMATIC DIAGRAM - USB Board -



• Waveforms

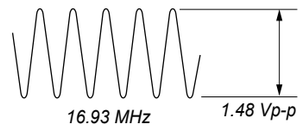
– MAIN Board –

① IC101 ⑪ (Xout)



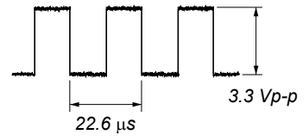
100 mV/DIV, 50 ns/DIV

② IC306 ⑮ (XOUT_PLL)



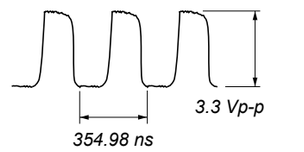
500 mV/DIV, 25 ns/DIV

③ IC306 ㉕ (LED_PLAY/LRCK/SPDIF)



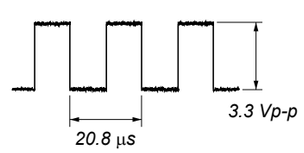
500 mV/DIV, 5 µs/DIV

④ IC306 ㉖ (LED_PSD/BCK)



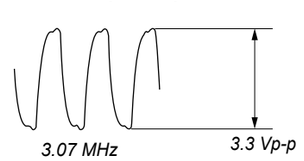
500 mV/DIV, 100 ns/DIV

⑤ IC308 ㉔ (LRCKO)



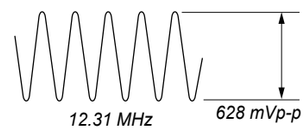
500 mV/DIV, 5 µs/DIV

⑥ IC308 ㉕ (BCKO)



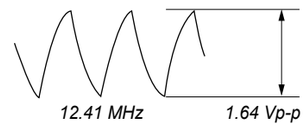
500 mV/DIV, 100 ns/DIV

⑦ IC309 ④ (XTALO)



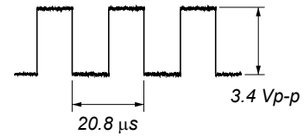
100 mV/DIV, 25 ns/DIV

⑧ IC310 ⑥ (SCKI)



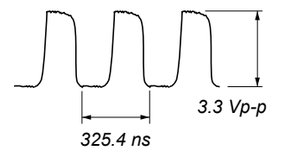
500 mV/DIV, 25 ns/DIV

⑨ IC310 ⑦ (LRCK)



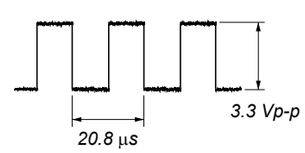
500 mV/DIV, 5 µs/DIV

⑩ IC311 ⑫ (BCLK/ROUT)



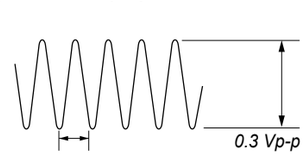
500 mV/DIV, 100 ns/DIV

⑪ IC311 ⑬ (LRCK/LOUT)



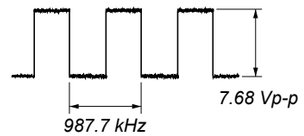
500 mV/DIV, 5 µs/DIV

⑫ IC311 ⑰ (X2)



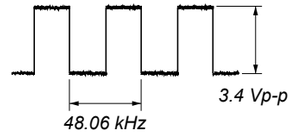
100 mV/DIV, 25 ns/DIV

⑬ IC512 ① (BOOT)



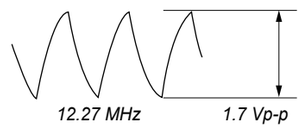
2 V/DIV, 250 ns/DIV

⑭ IC603 ③ (LRCK)



500 mV, 5 µs/DIV

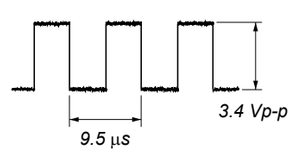
⑮ IC603 ⑯ (SCK)



500 mV/DIV, 25 ns/DIV

– DISPLAY Board –

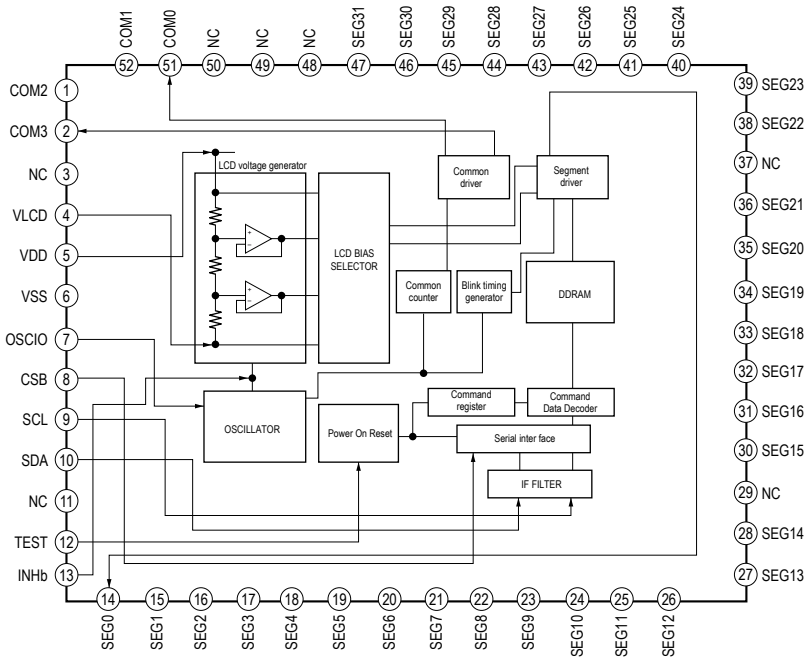
⑯ IC1100 ⑦ (OSCIN)



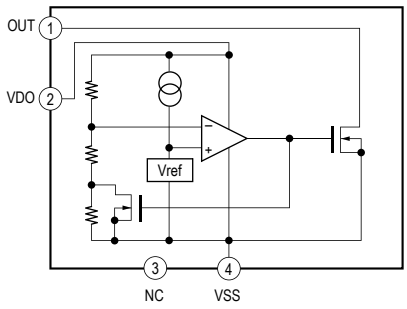
1 V/DIV, 2.5 µs/DIV

- **IC Block Diagrams**

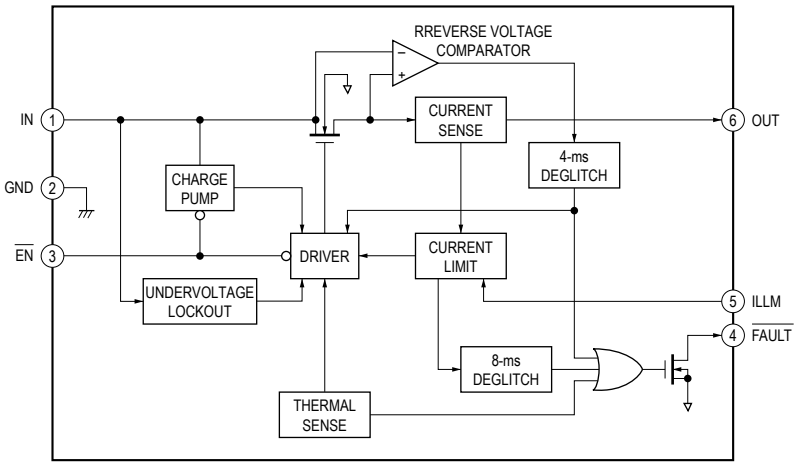
IC1100 BU9795AKS2 (DISPLAY BOARD)



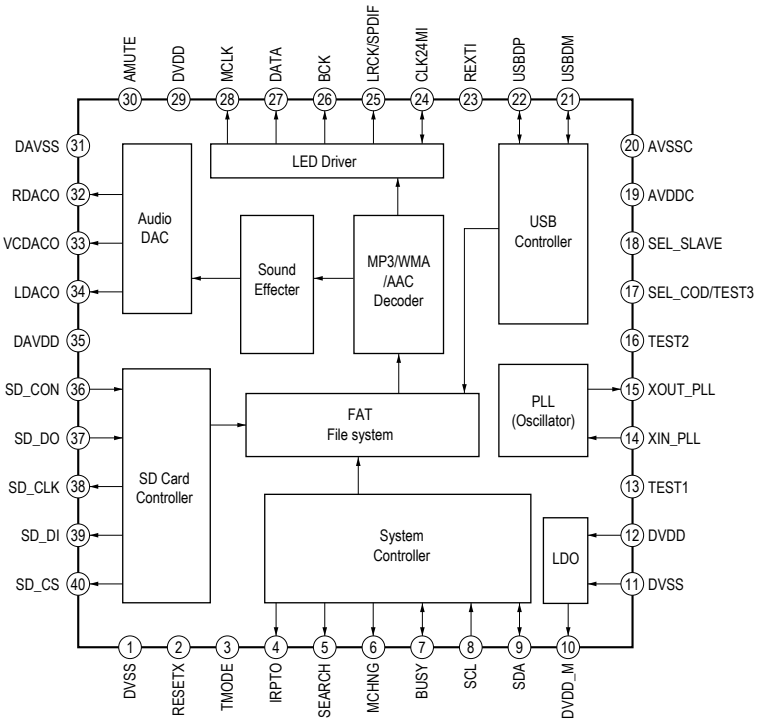
IC105 BU4829F-TR (MAIN BOARD (1/6))



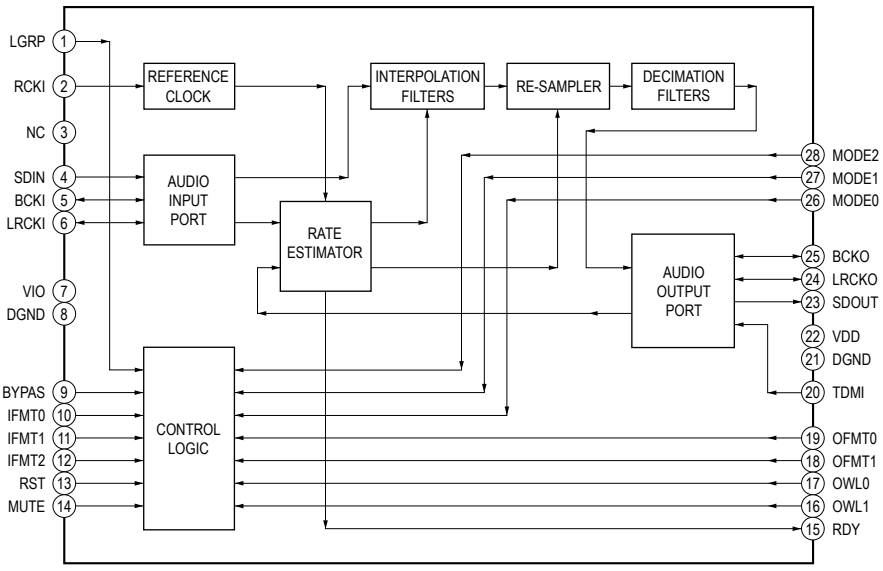
IC304 TPS2553DBVR (MAIN BOARD (2/6))



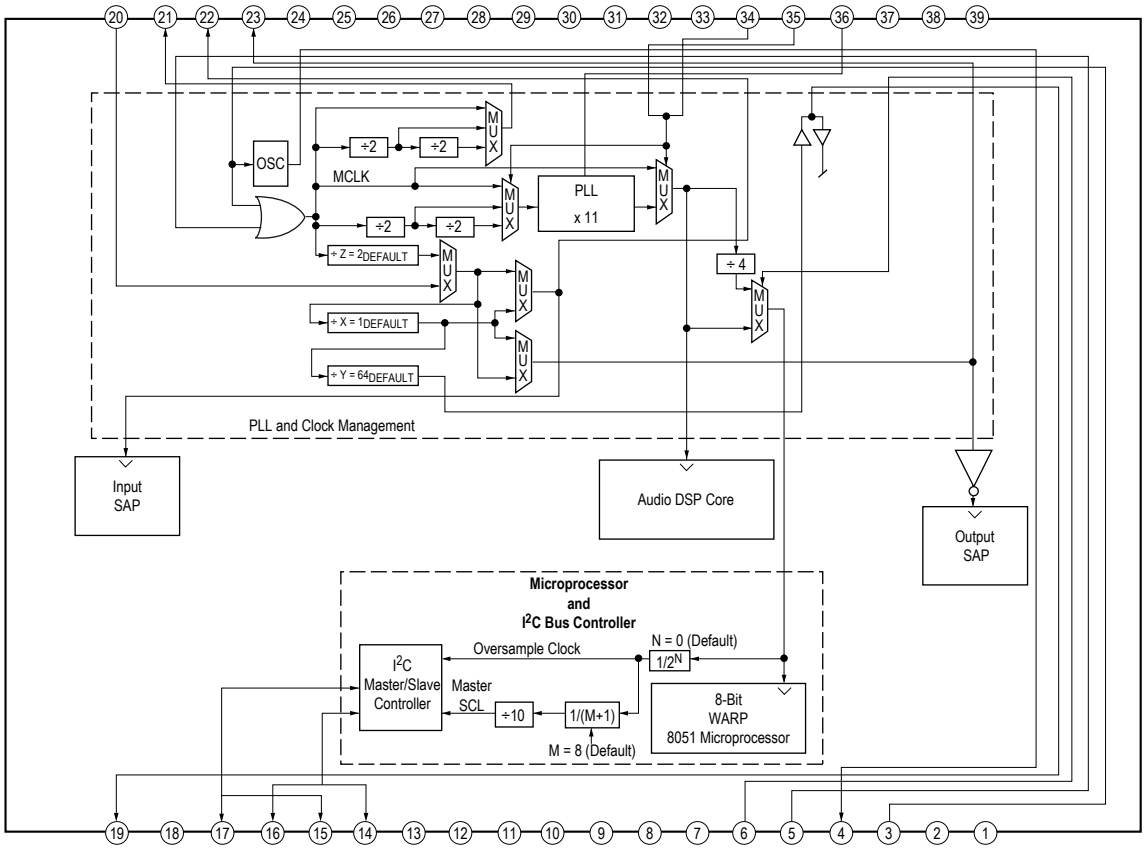
IC306 BU94502AMUV (MAIN BOARD (2/6))



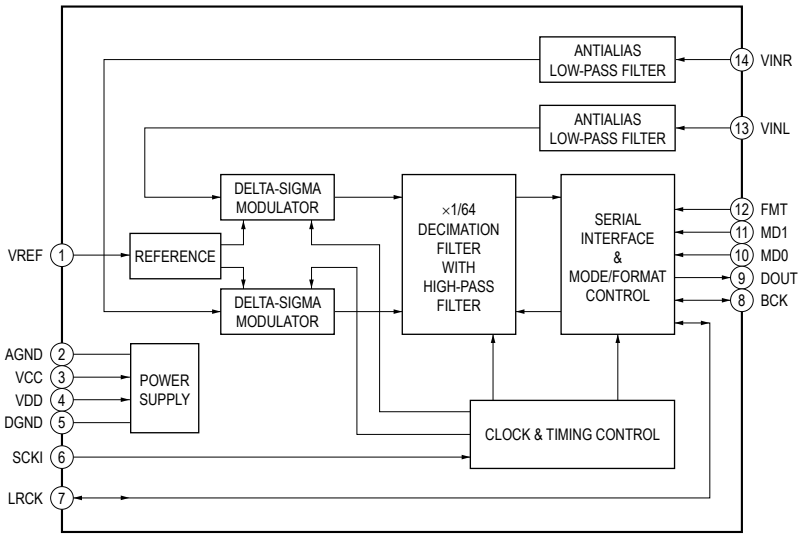
IC308 SRC4182 (MAIN BOARD (2/6))



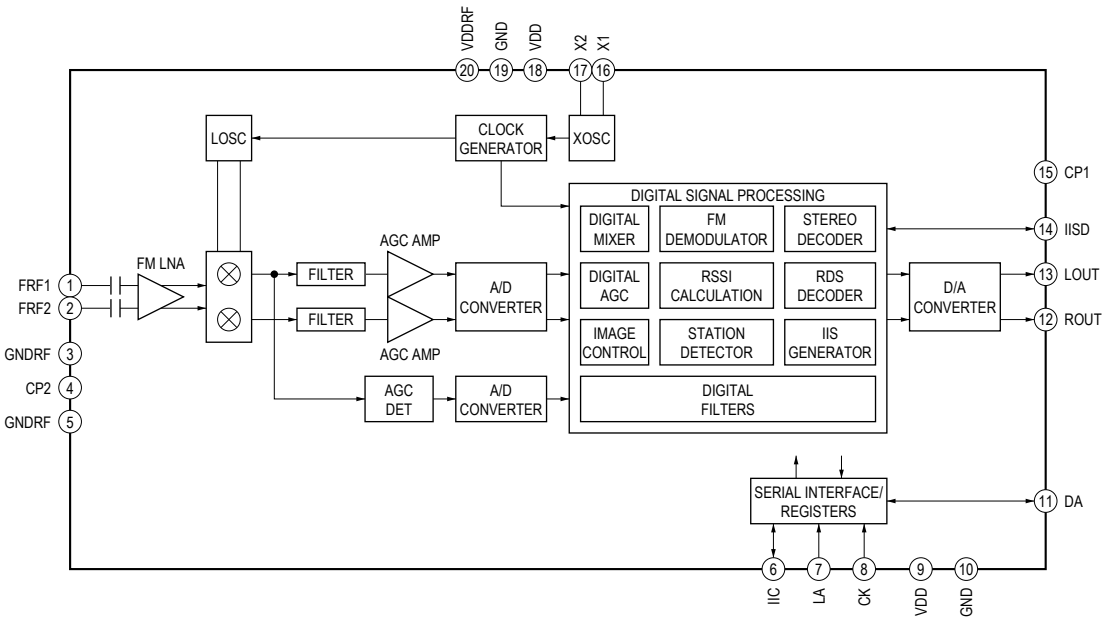
IC309 TAS3108DCPR (MAIN BOARD (2/6))



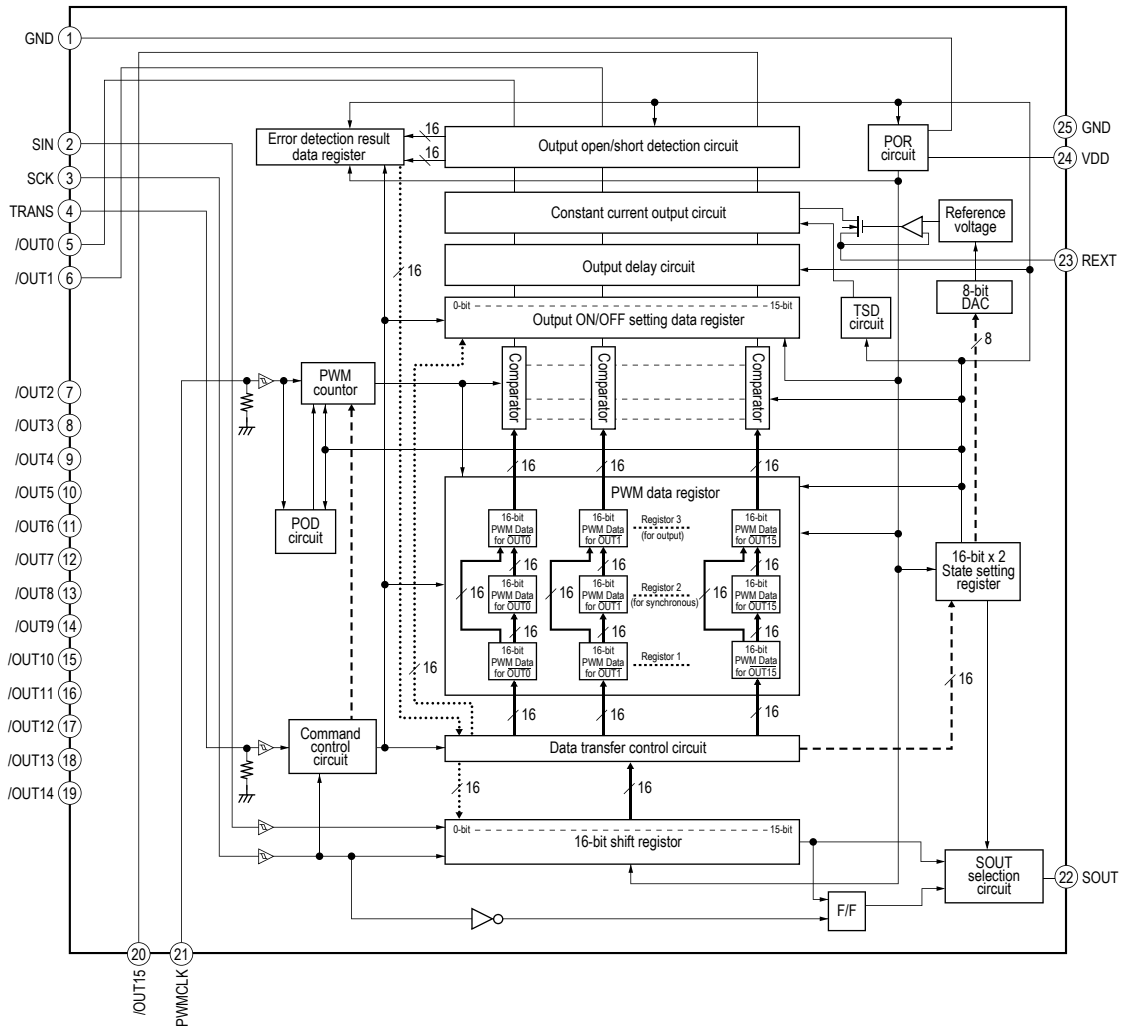
IC310 PCM1808PWR (MAIN BOARD (3/6))



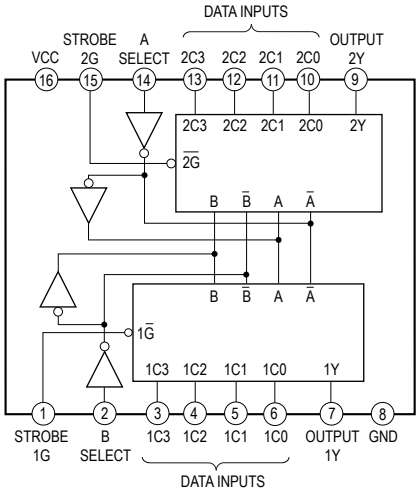
IC311 RN5B701-0002 (MAIN BOARD (3/6))



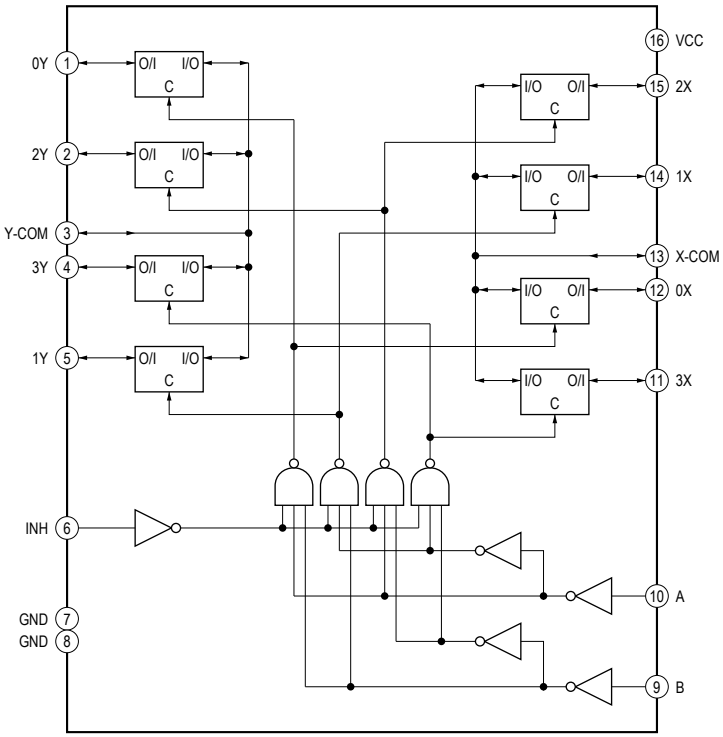
IC313 TC62D723FNG (MAIN BOARD (2/6))



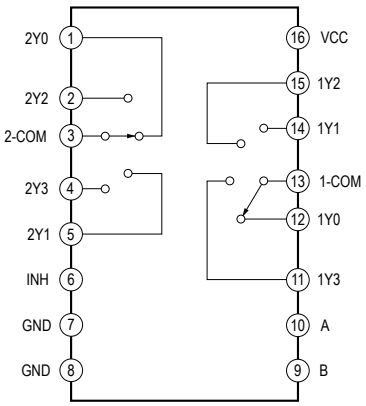
IC314, IC315 TC74VHC153FT (EL) (MAIN BOARD (3/6))



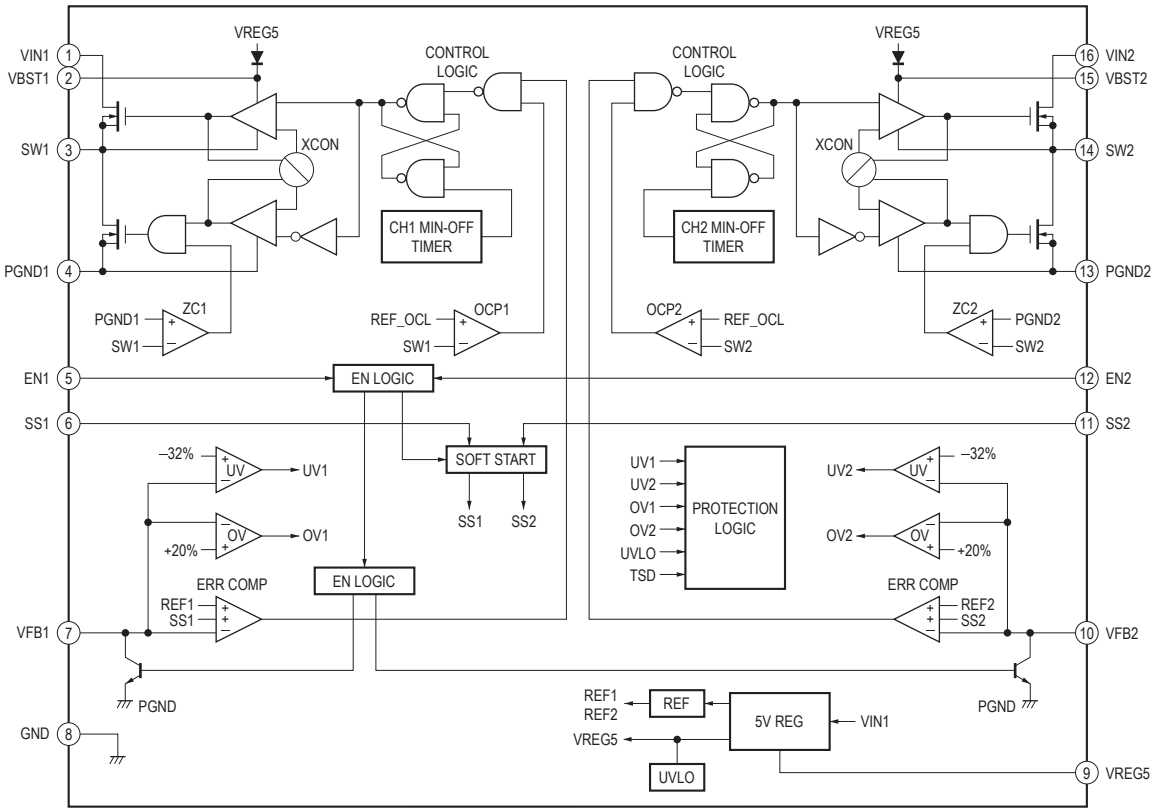
IC316 TC74VHC4052AFT (EK) (MAIN BOARD (3/6))



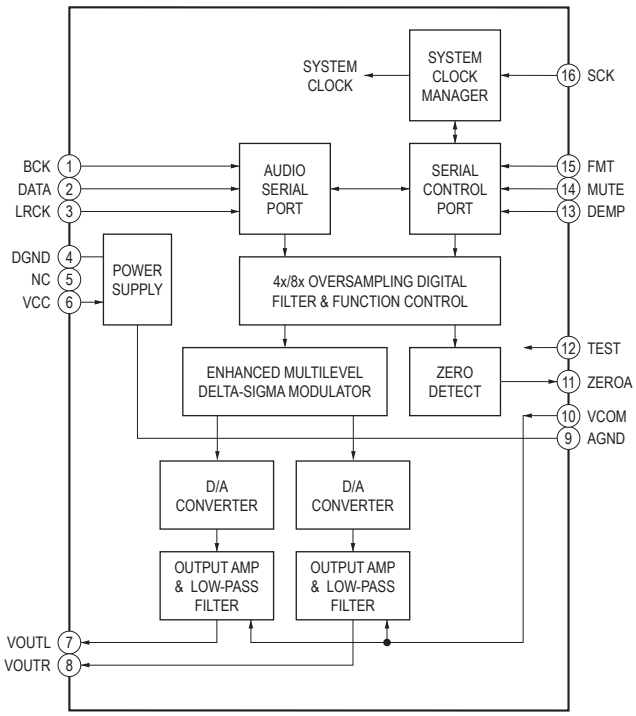
IC401 SN74LV4052APWR (MAIN BOARD (6/6))



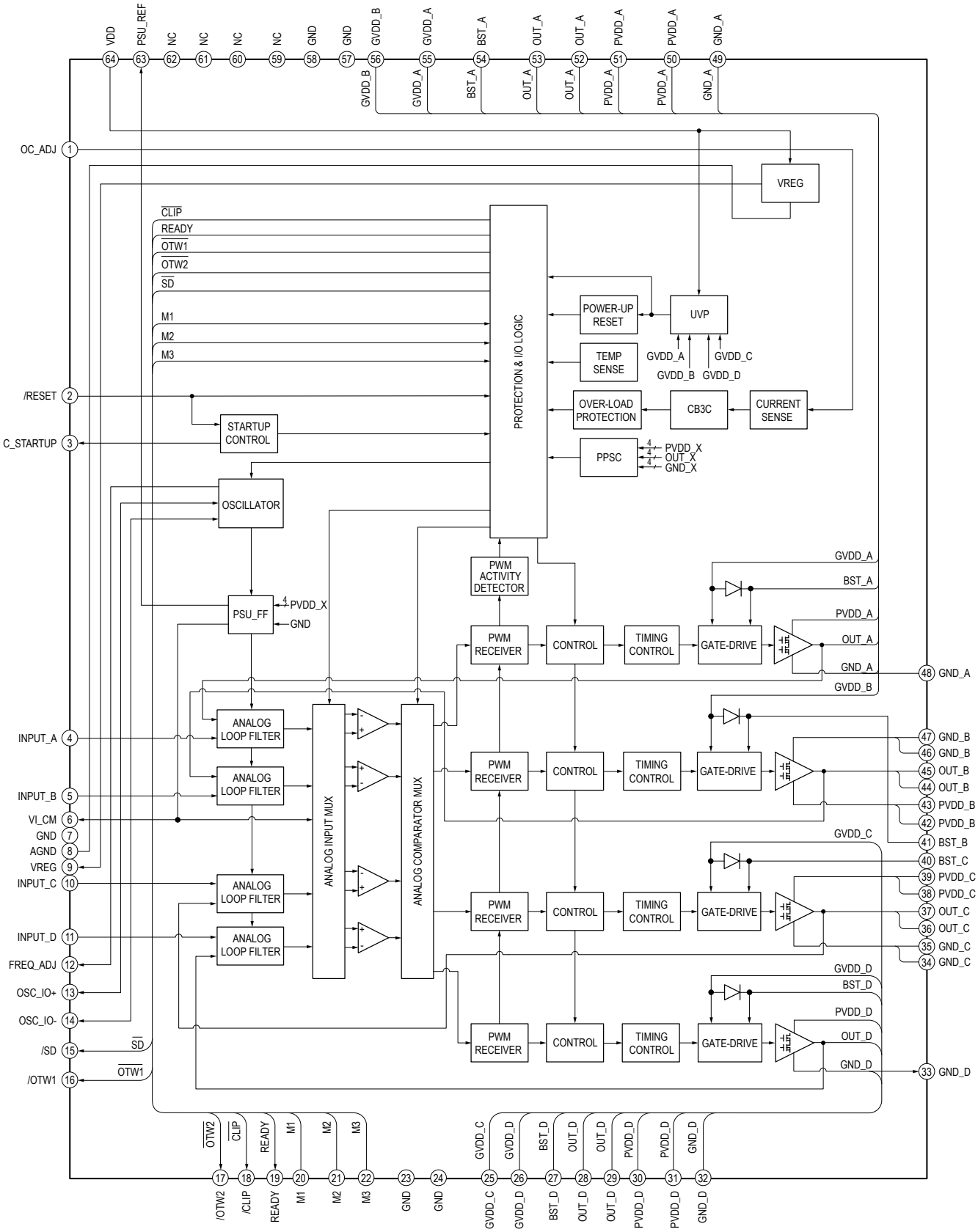
IC506 TPS542941PWPR (MAIN BOARD (4/6))



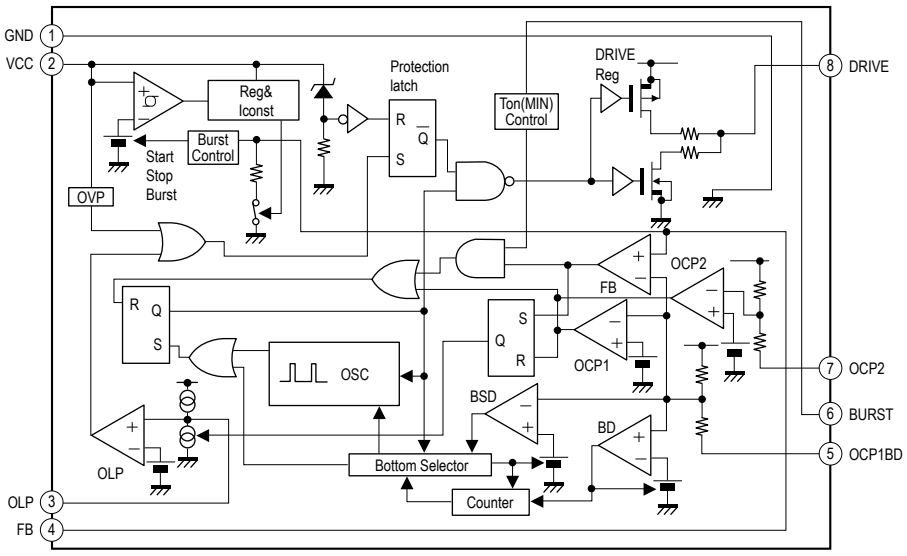
IC603, IC605 PCM1754DBQR (MAIN BOARD (5/6))



IC604 TAS5630BPHDR (MAIN BOARD (5/6))



IC900 SSC6700 (SMPS BOARD)



• **IC Pin Function Descriptions**

MAIN BOARD (1/6) IC101 R5F3650NCDFB (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	No use	O	UNUSE
2	No use	O	UNUSE
3	RGB DRV CLK	O	RGB Driver Clock
4	RGB DRV DATA	O	RGB Driver Data
5	SIRCS	I	SIRCS signal input from remote control receiver
6	BYTE	-	External data bus width selection signal input terminal
7	CNVss	-	Processor mode selection signal input terminal
8	XcIN	I	Sub system clock input terminal (32.768kHz)
9	Xcout	I	Sub system clock output terminal (32.768kHz)
10	RESET	-	System reset signal input from the reset signal IC "L": reset After the power supply rises, "L" is input for several hundreds msec and then change to "H".
11	Xout	-	Main system clock output terminal (8MHz)
12	Vss	-	Ground terminal
13	Xin	-	Main system clock input terminal (8MHz)
14	Vcc	-	Power supply terminal (+3.3V)
15	NMI	I	Non-maskable interrupt input terminal
16	I-BIAS DETECT	I	For Party Chain
17	AC-CUT	I	AC off detection signal input from the reset signal IC "L": AC Cut detected Not used
18	BLUETOOTH MUTE	I	Muting on/off control signal input from Bluetooth section.
19	O_LINK_B	O	For Party Chain
20	CP IIC CLK	I	iPod CP data signal for IIC communication
21	O-BIAS	O	For Party Chain
22	CP IIC SDA	I	iPod CP clock signal for IIC communication
23	CP RESET	O	Reset signal output to the EEPROM. "L": reset
24	DP DRV CLK	O	LCD driver clock
25	RDS-INT	I	RDS interrupt signal input from the tuner section
26	RGB DRV PWM CLK	O	RGB LED driver clock
27	TUNER SCL	I	Tuner IC clock signal for IIC communication
28	TUNER SDA	I	Tuner IC data signal for IIC communication
29	PGM TX	O	Update Connector / 5B800
30	PGM RX	I	Update Connector / 5B800
31	PGM CLK	O	Update Connector
32	BLUETOOTH CTS	I	CTS signal input from Bluetooth section
33	BLUETOOTH TXD	O	TX signal output terminal for Bluetooth section
34	BLUETOOTH RXD	I	RX input signal from Bluetooth section
35	BLUETOOTH RESET	O	Reset signal output to Bluetooth section
36	BLUETOOTH RTS	O	RTS signal output terminal for Bluetooth section
37	BLUETOOTH ON	O	Bluetooth on/off control signal output terminal for bluetooth section
38	O_LINK_A	O	For Party Chain
39	FLASH WRITE MODE IN	O	To Enter Flash Write Mode
40	EXT SEL_A	O	Analog In Selector (L : Tuner; H : Audio In)
41	O-LINE MUTE(LINK)	O	For Party Chain mute control
42	DSP MUTE	O	Muting on/off control signal output to the DSP
43	DSP RESET	O	Reset signal output to the DSP
44	FLASH WRITE MODE IN	O	To enter Flash Write Mode
45	DSP IIC_SDA	I	DSP IC data signal for IIC communication
46	DSP IIC_CLK	I	DSP IC clock signal for IIC communication
47	I-SD-FAST	I	SD Fast
48	I-SD-SLOW	I	SD Slow
49	FRONT MUTE	O	Speaker Mute
50	DAMP-RESET	O	Reset signal output to the power amplifier. "L": reset
51	G-SENSOR IN1	I	Slant Sensor
52	G-SENSOR IN2	I	Slant Sensor

Pin No.	Pin Name	I/O	Description
53	No use	O	UNUSE
54	No use	O	UNUSE
55	ISOLATOR LED	O	LED signal output terminal for DJ Effect (Isolator) illumination. “H”: LED on
56	FLANGER LED	O	LED signal output terminal for DJ Effect (Flanger) illumination. “H”: LED on
57	PAN_LED	O	LED signal output terminal for DJ Effect (Pan) illumination. “H”: LED on
58	PHASER_LED	O	LED signal output terminal for DJ Effect (Phaser) illumination. “H”: LED on
59	BLUETOOTH LED	O	LED signal output terminal for Bluetooth illumination. “H”: LED on
60	Vcc	-	Power supply terminal (+3.3V)
61	No use	O	UNUSE
62	Vss	-	Ground terminal
63	NFC STANBY	O	NFC standby control output terminal to the NFC section
64	NFC DATA SEL	O	NFC data read/write control output terminal to the NFC section
65	DSP INT	I	DSP interrupt input signal from the DSP
66	NFC RF DETECT	I	NFC RF signal detection signal input from the NFC section
67	NFC DATA	O	Two-way data bus with the NFC
68	NFC CLOCK	O	Serial data transfer clock signal output to the NFC
69	NFC IRQ	I	NFC wireless data receive signal input from the NFC section
70	FAN_LOW_SPEED	O	Fan Speed control
71	No use	O	UNUSE
72	TUNER_ON	O	Tuner On
73	USB MCHNG	I	Music change signal input from the audio decoder
74	USB IRPTO	I	Interrupt request signal input from the audio decode
75	USB SDA	I	Audio decoder data signal for IIC communication
76	USB SCL	I	Audio decoder clock signal for IIC communication
77	USB BUSY	I	Busy signal input from the audio decoder
78	USB RESET	O	Reset signal output to the audio decoder
79	USB SEARCH	I	Search signal input from the audio decoder
80	USB POWER	O	Power on/off control signal output terminal for USB section. “H”: power on
81	USB OVERCURRENT	I	VBUS over current detection signal input terminal
82	No use	O	UNUSE
83	No use	O	UNUSE
84	P-ON	O	Power on/off control signal output terminal for regulator section. “H”: power on
85	FAN_BLOCK	I	PROTECT (H=PROTECT / L=NORMAL)
86	SPEC-IN	I	Destination setting terminal (A/D input)
87	RGB DRV TRAN	O	Trans Signal output to LED RGB Driver
88	PVDD-ON	O	Main power on/off control signal output terminal. “H”: main power on
89	EXT_SEL_D	O	Digital Selector (L : BlueTooth ; H : USB)
90	KEY 1	I	Panel key input terminal (A/D input)
91	KEY 2	I	
92	VOLUME-JOG	I	Jog dial pulse input terminal for VOLUME dial (A/D input)
93	MODEL-IN	I	Model setting terminal (A/D input)
94	Avss	-	Ground terminal
95	DP CS	O	Chip select signal output to LCD driver
96	VREF	-	A/D Converter reference voltage input terminal (+3.3V)
97	Avcc	-	Power supply terminal (+3.3V)
98	DP INH	O	Backlight indicator control signal output to the LCD driver. “H”: display on
99	DP SDA/SPI DOUT	O	Serial data output to the LCD driver
100	DP SCL	O	Serial data transfer clock signal output to the LCD driver

SECTION 6
EXPLODED VIEWS

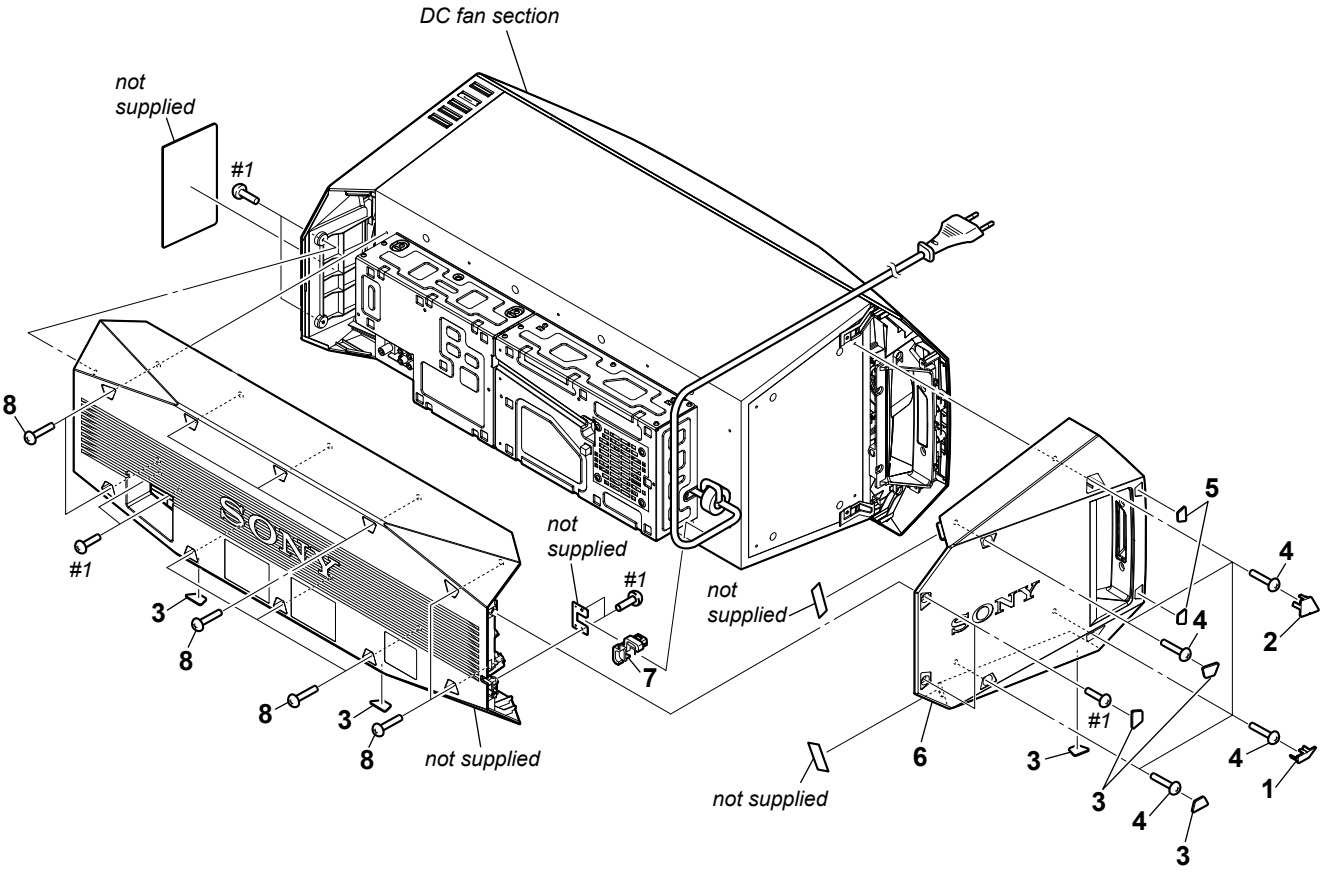
Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E2 : 120 V AC area in E model
  E12 : 220 – 240 V AC area in E model
  E51 : Chilean, Peruvian and PX models
  MX : Mexican model
  MY : Malaysia model
  RU : Russian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. BACK PANEL SECTION

- Back side view

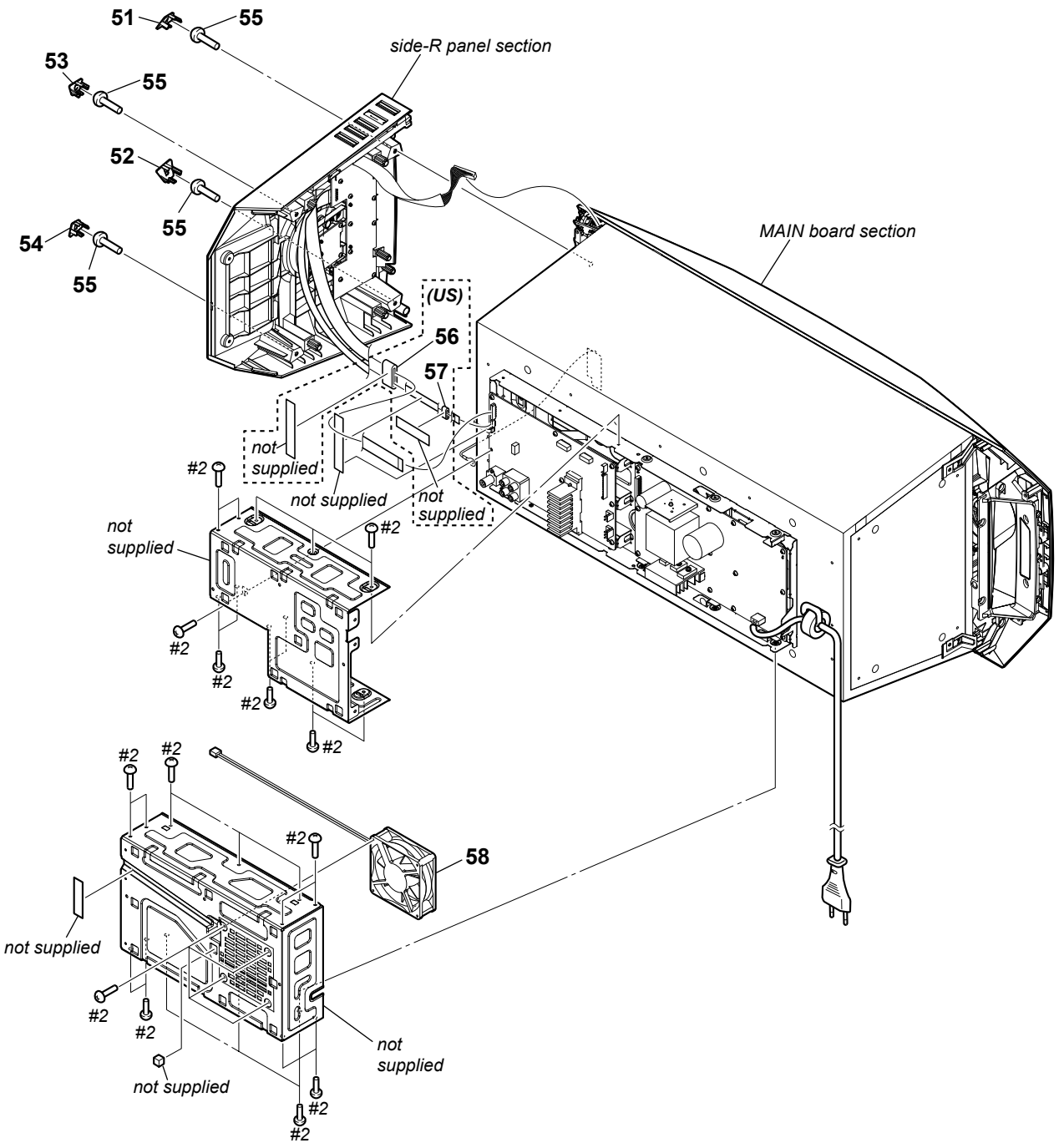


Ref. No.	Part No.	Description	Remark
1	4-479-874-01	COVER, SCREW-A	
2	4-479-875-01	COVER, SCREW-B	
3	4-479-886-01	FOOT, B	
4	4-874-614-52	SCREW (1) (3.5X20), TAPPING	
5	4-479-885-01	FOOT, A	

Ref. No.	Part No.	Description	Remark
6	4-479-854-01	PANEL, SIDE-L	
⚠ 7	3-703-244-00	BUSHING (2104), CORD	
8	4-485-905-11	SCREW +BV, TAPPING-TYPE1 (M4)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

6-2. DC FAN SECTION

- Back side view

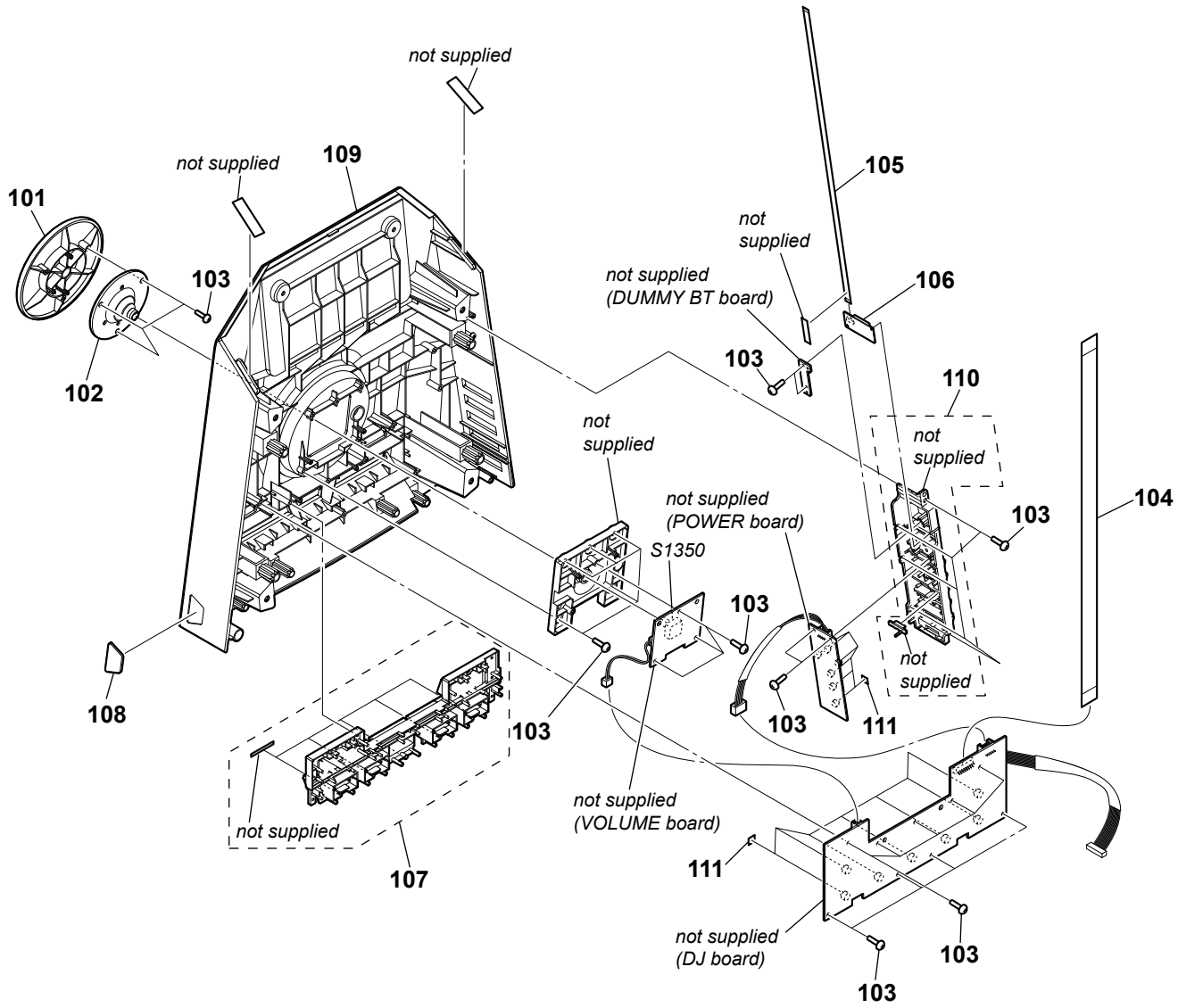


Ref. No.	Part No.	Description	Remark
51	4-479-874-01	COVER, SCREW-A	
52	4-479-875-01	COVER, SCREW-B	
53	4-479-876-01	COVER, SCREW-C	
54	4-479-877-01	COVER, SCREW-D	
55	4-874-614-52	SCREW (1) (3.5X20), TAPPING	

Ref. No.	Part No.	Description	Remark
56	1-457-413-21	CORE, FERRITE (US)	
57	1-481-636-21	CORE, FERRITE (US)	
⚠ 58	1-855-006-61	DC FAN	
#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	

6-3. SIDE-R PANEL SECTION

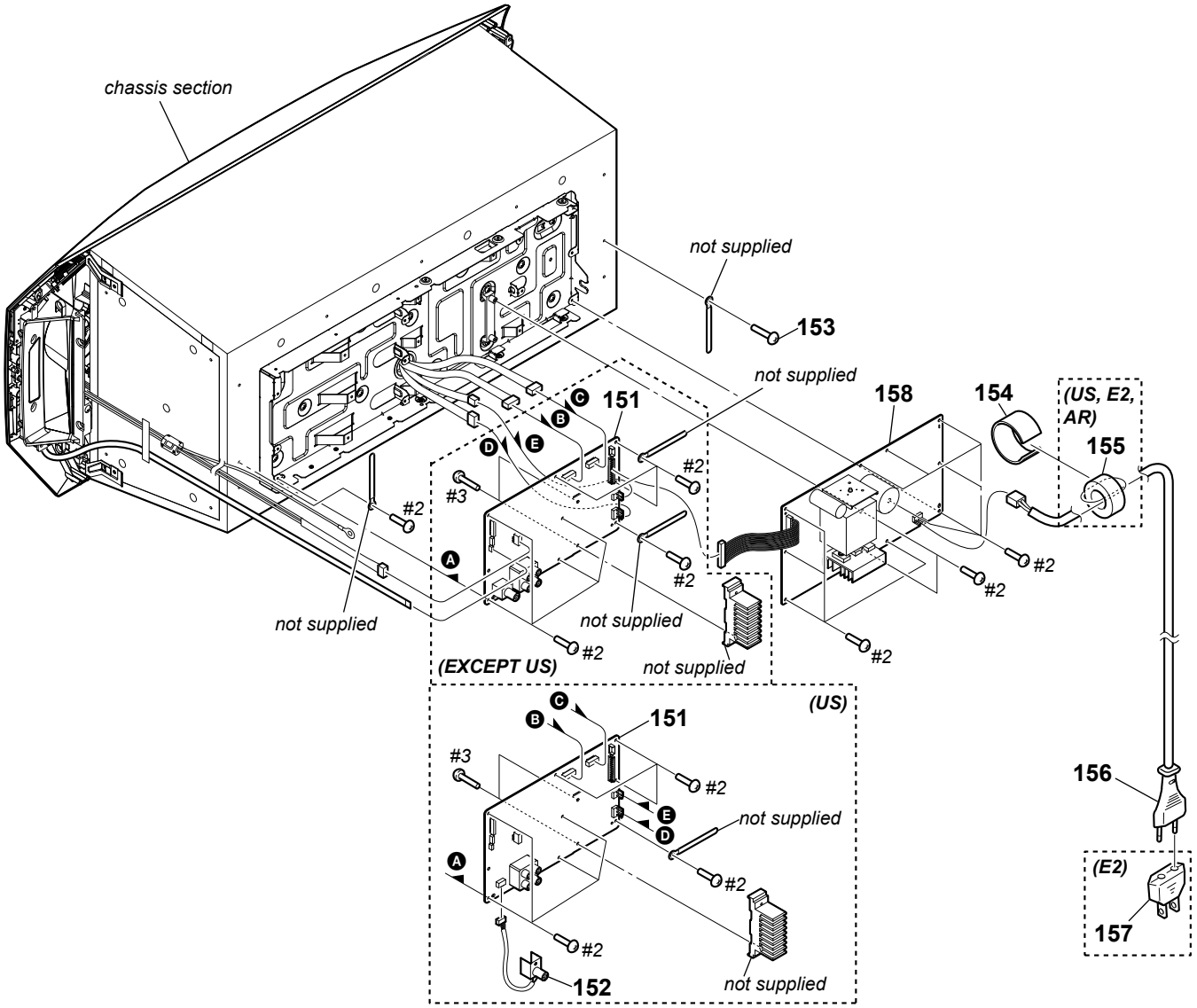
• Back side view



Ref. No.	Part No.	Description	Remark
101	4-479-868-01	KNOB, VOL	
102	4-485-074-01	KNOB, BASE	
103	3-087-053-01	+BVTP2.6 (3CR)	
104	1-848-359-21	FLEXIBLE FLAT CABLE (17 CORE)	
105	1-848-361-21	FLEXIBLE FLAT CABLE (14 CORE)	
106	1-490-558-81	BLUETOOTH MODULE	
107	X-2588-339-1	BUTTON, DJ ASSY	
108	4-479-886-01	FOOT, B	
109	4-479-855-01	PANEL, SIDE-R (EXCEPT US)	
109	4-479-855-11	PANEL, SIDE-R (US)	
110	X-2588-338-1	BUTTON, POWER ASSY	
111	3-831-441-11	CUSHION (B)	
S1350	1-489-978-11	ENCODER, ROTARY (VOLUME/DJ CONTROL)	

6-4. MAIN BOARD SECTION

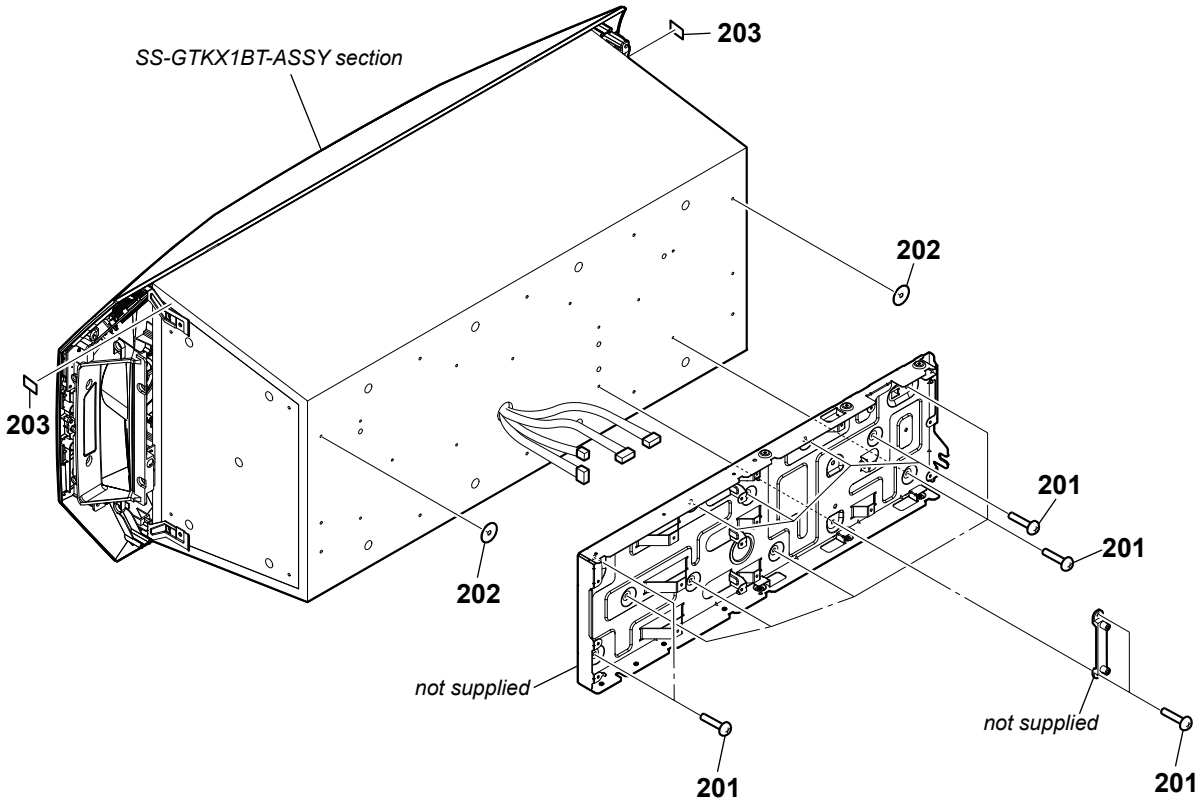
• Back side view



Ref. No.	Part No.	Description	Remark
151	A-1979-288-A	MAIN BOARD, COMPLETE (E51)	
151	A-1979-300-A	MAIN BOARD, COMPLETE (AEP, UK)	
151	A-2011-871-A	MAIN BOARD, COMPLETE (E2)	
151	A-2011-877-A	MAIN BOARD, COMPLETE (US)	
151	A-2011-880-A	MAIN BOARD, COMPLETE (MX)	
151	A-2015-133-A	MAIN BOARD, COMPLETE (AR)	
151	A-2015-136-A	MAIN BOARD, COMPLETE (AUS)	
151	A-2015-223-A	MAIN BOARD, COMPLETE (MY)	
151	A-2015-229-A	MAIN BOARD, COMPLETE (RU)	
152	1-842-375-11	CONNECTOR, FM ANTENNA (US)	
153	4-874-614-52	SCREW (1) (3.5X20), TAPPING	
154	4-425-392-11	CUSHION (E)	
155	1-481-419-21	FERRITE CORE (US, E2, AR)	
⚠ 156	1-834-966-42	POWER-SUPPLY CORD (AEP, RU, E51)	
⚠ 156	1-835-068-21	CORD, POWER (AUS)	
⚠ 156	1-837-308-12	CORD, POWER-SUPPLY (US)	
⚠ 156	1-837-312-11	CORD, POWER-SUPPLY (AR)	
⚠ 156	1-837-344-11	CORD, POWER-SUPPLY (E2, MX)	
⚠ 156	1-839-999-21	POWER-SUPPLY CORD (UK, MY)	
⚠ 157	1-569-007-31	ADAPTOR, CONVERSION 2P (E2)	
158	A-1979-293-A	SMPS BOARD, COMPLETE (US, E51)	
158	A-2043-892-A	SMPS BOARD, COMPLETE (AEP, UK, RU)	
158	A-2045-494-A	SMPS BOARD, COMPLETE (E2, MX, AR)	
158	A-2045-496-A	SMPS BOARD, COMPLETE (MY, AUS)	
#2	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	

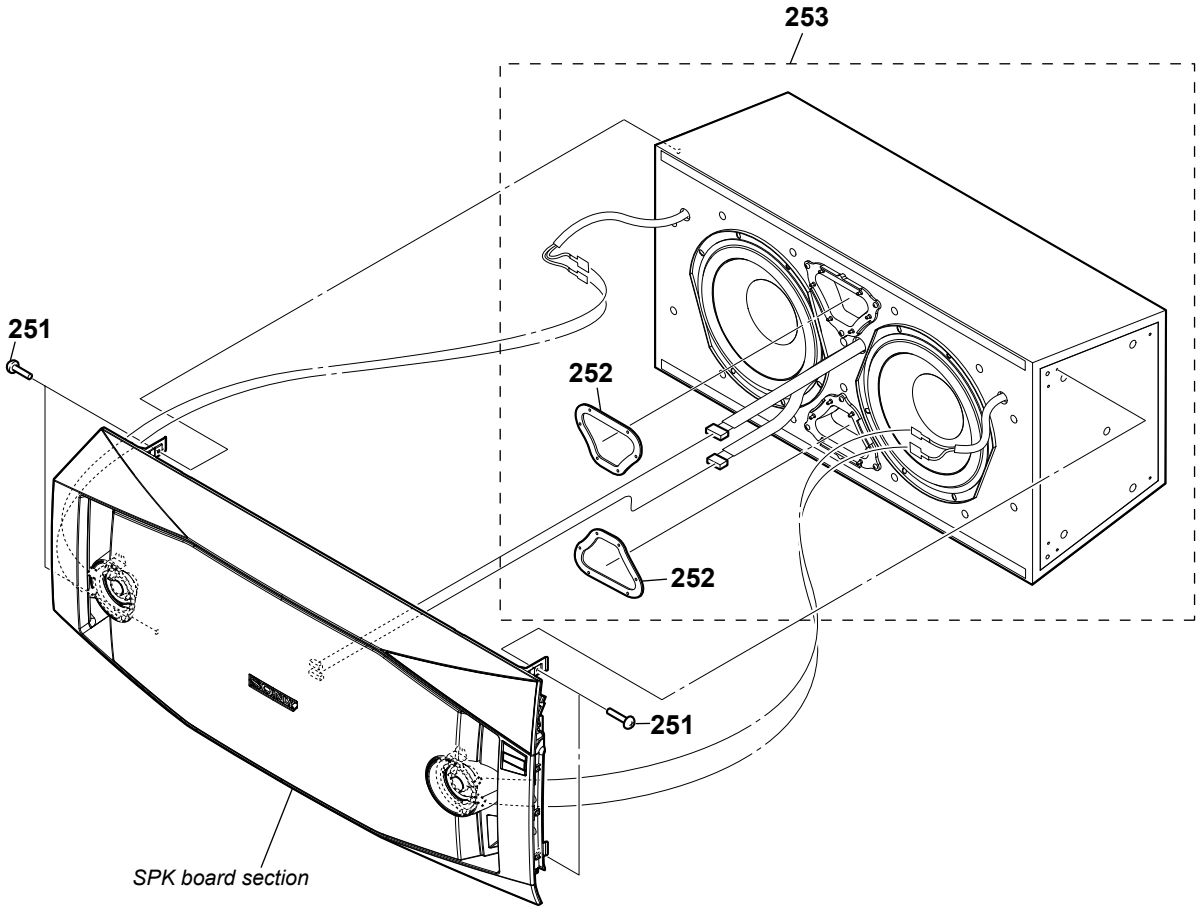
6-5. CHASSIS SECTION

• Back side view



Ref. No.	Part No.	Description	Remark
201	4-874-614-52	SCREW (1) (3.5X20), TAPPING	
202	4-537-951-01	WASHER (PANEL BACK)	
203	4-425-392-41	CUSHION (E)	

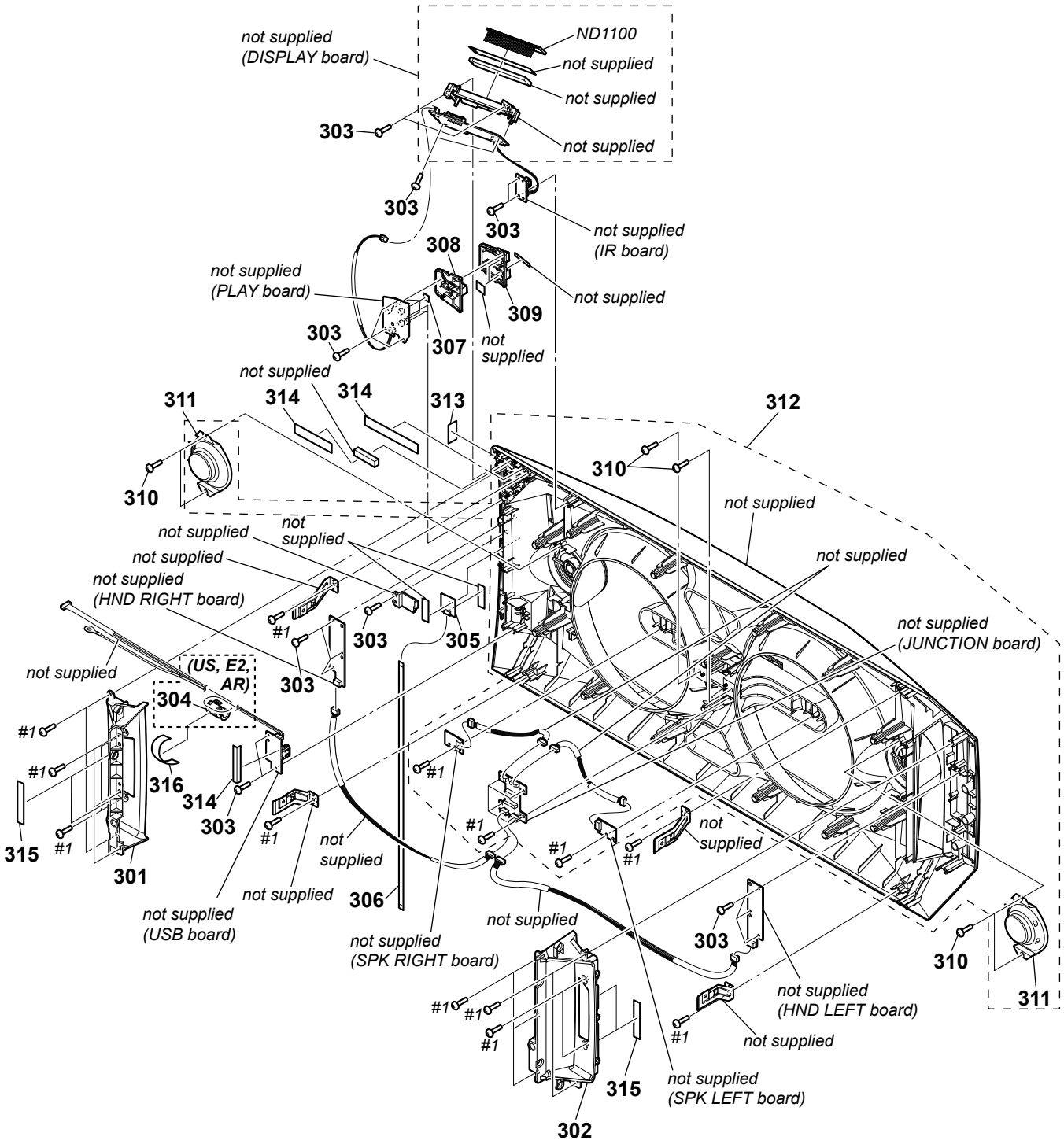
6-6. SS-GTKX1BT-ASSY SECTION



Ref. No.	Part No.	Description	Remark
251	4-874-614-52	SCREW (1) (3.5X20), TAPPING	
252	4-485-381-01	PACKING, DUCT	
253	A-1979-416-C	SS-GTKX1BT-ASSY (EXCEPT US)	
253	A-2037-245-C	SS-GTKX1BT-ASSY (U2) (US)	

6-7. SPK BOARD SECTION

• Back side view



Ref. No.	Part No.	Description	Remark
301	X-2588-336-1	HANDLE, R ASSY	
302	X-2588-335-1	HANDLE, L ASSY	
303	3-087-053-01	+BVTP2.6 (3CR)	
304	1-400-932-21	FILTER, CLAMP (US, E2, AR)	
305	8-989-470-05	RC-S801/A5 (WW)	
306	1-848-360-21	FLEXIBLE FLAT CABLE (8 CORE)	
307	3-831-441-11	CUSHION (B)	
308	4-479-866-01	BUTTON, FWD	
309	4-479-865-01	BUTTON, PLAY	
310	4-874-614-02	SCREW (1) (3.5X14), TAPPING	
311	1-858-752-21	LOUDSPEAKER (6.6CM)	
312	A-1979-242-A	PANEL, FRONT ASSY	
313	4-425-392-41	CUSHION (E)	
314	4-425-392-21	CUSHION (E)	
315	4-425-393-01	CUSHION (H)	
316	4-425-392-11	CUSHION (E)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

GTK-X1BT
Ver. 1.1
DISPLAY **DJ**

SECTION 7
ELECTRICAL PARTS LIST

Note:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .

- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E2 : 120 V AC area in E model
  E12 : 220 – 240 V AC area in E model
  E51 : Chilean, Peruvian and PX models
  MX : Mexican model
  MY : Malaysia model
  RU : Russian model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			
		DISPLAY BOARD			
		**********			
		< CAPACITOR >			
C1100	1-116-734-11	CERAMIC CHIP	1uF	20%	16V
C1101	1-165-989-91	CERAMIC CHIP	10uF	10%	6.3V
		< CONNECTOR >			
* CN1100	1-564-726-11	PIN, CONNECTOR (SMALL TYPE) 10P			
CN1101	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D1100	6-503-770-01	DI 1L043RW32EOCI7A11 (WHITE) (LCD BACKLIGHT)			
* D1101	6-503-578-01	DI RB520SM-30T2R			
* D1102	6-503-578-01	DI RB520SM-30T2R			
		< IC >			
IC1100	6-720-239-01	IC BU9795AKS2			
		< JUMPER RESISTOR >			
JR1101	1-216-296-11	SHORT CHIP	0		
JR1102	1-216-296-11	SHORT CHIP	0		
JR1103	1-216-864-11	SHORT CHIP	0		
JR1104	1-216-296-11	SHORT CHIP	0		
		< LIQUID CRYSTAL DISPLAY >			
ND1100	1-811-773-11	LIQUID CRYSTAL DISPLAY			
		< TRANSISTOR >			
Q1100	6-552-948-01	TR	LTC043ZUBFS8TL		
		< RESISTOR >			
R1102	1-216-809-11	METAL CHIP	100	5%	1/10W
R1103	1-216-809-11	METAL CHIP	100	5%	1/10W
R1104	1-216-809-11	METAL CHIP	100	5%	1/10W
R1105	1-216-864-11	SHORT CHIP	0		
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1111	1-216-864-11	SHORT CHIP	0		
R1113	1-216-807-11	METAL CHIP	68	5%	1/10W
**********					

Ref. No.	Part No.	Description			
		DJ BOARD			
		*********			
		< CAPACITOR >			
* C1160	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
* C1161	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN1160	1-779-554-21	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			
CN1161	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CN1162	1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D1160	6-503-720-01	DI 1L0353W61B3MKT01			
D1161	6-503-720-01	DI 1L0353W61B3MKT01			
D1162	6-503-720-01	DI 1L0353W61B3MKT01			
D1163	6-503-720-01	DI 1L0353W61B3MKT01			
		< TRANSISTOR >			
Q1160	6-550-981-01	TR	RN1905		
Q1161	6-550-981-01	TR	RN1905		
		< RESISTOR >			
R1160	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1161	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1162	1-216-817-11	METAL CHIP	470	5%	1/10W
R1163	1-216-817-11	METAL CHIP	470	5%	1/10W
R1164	1-216-813-11	METAL CHIP	220	5%	1/10W
R1165	1-216-813-11	METAL CHIP	220	5%	1/10W
R1166	1-216-813-11	METAL CHIP	220	5%	1/10W
R1167	1-216-813-11	METAL CHIP	220	5%	1/10W
R1168	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1169	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1170	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1171	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1172	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1173	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1174	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
		< SWITCH >			
SE1160	1-762-875-21	SWITCH, TACTILE (EQ)			
SE1161	1-762-875-21	SWITCH, TACTILE (FLANGER)			
SE1162	1-762-875-21	SWITCH, TACTILE (ISOLATOR)			
SE1163	1-762-875-21	SWITCH, TACTILE (BASS BAZUCA)			

Ref. No.	Part No.	Description	Remark
SE1164	1-762-875-21	SWITCH, TACTILE (PHASER)	
SE1165	1-762-875-21	SWITCH, TACTILE (PAN)	
SE1166	1-762-875-21	SWITCH, TACTILE (LED SPEAKER)	

****

HND LEFT BOARD
****

< CONNECTOR >

CN1390	1-844-016-11	PIN, CONNECTOR (SMD) 5P	

< DIODE>

D1390	6-503-944-01	DI SMLVN6RGB1U15QYA	
D1392	6-503-944-01	DI SMLVN6RGB1U15QYA	

< JUMPER RESISTOR>

JR1390	1-216-864-11	SHORT CHIP 0	
JR1391	1-216-864-11	SHORT CHIP 0	

< RESISTOR>

R1391	1-216-864-11	SHORT CHIP 0	
R1394	1-216-864-11	SHORT CHIP 0	
R1397	1-216-864-11	SHORT CHIP 0	

****

HND RIGHT BOARD
****

< CONNECTOR >

CN1400	1-844-026-11	PIN, CONNECTOR (SMD) 4P	

< DIODE >

D1400	6-503-944-01	DI SMLVN6RGB1U15QYA	
D1402	6-503-944-01	DI SMLVN6RGB1U15QYA	

< JUMPER RESISTOR >

JR1400	1-216-864-11	SHORT CHIP 0	
JR1401	1-216-864-11	SHORT CHIP 0	

< RESISTOR >

R1401	1-216-864-11	SHORT CHIP 0	
R1404	1-216-864-11	SHORT CHIP 0	
R1407	1-216-864-11	SHORT CHIP 0	

****

IR BOARD
****

< CAPACITOR >

* C1360	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
C1361	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V

< IC >

IC1360	6-600-768-01	IC PNA4823M03S0 (IR)	

< JUMPER RESISTOR >

JR1360	1-216-296-11	SHORT CHIP 0	

Note 1: When the MAIN board is replaced, spread the compound referring to “NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD” on servicing notes (page 4).

Ref. No.	Part No.	Description			Remark

< RESISTOR >

R1360	1-216-809-11	METAL CHIP	100	5%	1/10W
R1361	1-216-809-11	METAL CHIP	100	5%	1/10W

****

JUNCTION BOARD
****

< CONNECTOR >

CN1410	1-844-023-11	PIN, CONNECTOR (SMD) 4P	
CN1411	1-844-027-11	PIN, CONNECTOR (SMD) 5P	
CN1412	1-844-025-11	PIN, CONNECTOR (SMD) 8P	
CN1413	1-844-024-11	PIN, CONNECTOR (SMD) 9P	
CN1414	1-844-023-11	PIN, CONNECTOR (SMD) 4P	
CN1415	1-844-027-11	PIN, CONNECTOR (SMD) 5P	

****

	A-1979-288-A	MAIN BOARD, COMPLETE (E51)	
	A-1979-300-A	MAIN BOARD, COMPLETE (AEP, UK)	
	A-2011-871-A	MAIN BOARD, COMPLETE (E2)	
	A-2011-877-A	MAIN BOARD, COMPLETE (US)	
	A-2011-880-A	MAIN BOARD, COMPLETE (MX)	
	A-2015-133-A	MAIN BOARD, COMPLETE (AR)	
	A-2015-136-A	MAIN BOARD, COMPLETE (AUS)	
	A-2015-223-A	MAIN BOARD, COMPLETE (MY)	
	A-2015-229-A	MAIN BOARD, COMPLETE (RU)	

****

	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	

< CAPACITOR >

C101	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C104	1-164-856-81	CERAMIC CHIP	18PF	5%	50V
C105	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
* C109	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
* C110	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
* C111	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
C112	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C113	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C114	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C115	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C116	1-112-792-11	ELECT CHIP	220uF	20%	16V
C117	1-112-792-11	ELECT CHIP	220uF	20%	16V
C124	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C125	1-137-765-21	ELECT CHIP	47uF	20%	16V
C126	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C127	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C128	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C129	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C261	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C262	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C267	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
C268	1-124-779-00	ELECT CHIP	10uF	20%	16V
C270	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C271	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
C274	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
C275	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
C276	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C277	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C278	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C279	1-116-737-11	CERAMIC CHIP	1uF	20%	10V

Note 2: When the MAIN board is replaced, spread the bond referring to “BOND FIXATION OF ELECTRIC PARTS” on servicing notes (page 6).

GTK-X1BT

Ver. 1.1

MAIN

	Ref. No.	Part No.	Description			Remark
	C280	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C281	1-118-354-11	CERAMIC CHIP	1000PF	5%	100V
	C285	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C287	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C288	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C293	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C294	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C295	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C296	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C318	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C319	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C320	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C321	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C322	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C323	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C324	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C325	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C326	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
	C327	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C328	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C330	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C331	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
*	C342	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C343	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C345	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C346	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C347	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C348	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C349	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C350	1-164-870-11	CERAMIC CHIP	68PF	5%	50V
	C351	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C352	1-164-843-11	CERAMIC CHIP	3PF	0.25PF	50V
	C353	1-164-843-11	CERAMIC CHIP	3PF	0.25PF	50V
*	C354	1-118-033-11	CERAMIC CHIP	0.047uF	10%	10V
*	C355	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
	C359	1-137-765-21	ELECT CHIP	47uF	20%	16V
	C360	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C361	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C383	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
	C384	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C385	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C386	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C387	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C390	1-116-741-11	CERAMIC CHIP	0.47uF	20%	10V
	C391	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C394	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C396	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C397	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C399	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C401	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C402	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C403	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C404	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C405	1-117-949-81	CERAMIC CHIP	820PF	10%	50V
	C406	1-117-949-81	CERAMIC CHIP	820PF	10%	50V
	C407	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
	C408	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
	C409	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C412	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C413	1-165-492-21	ELECT CHIP	100uF	20%	10V

	Ref. No.	Part No.	Description			Remark
	C414	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C415	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C416	1-137-765-21	ELECT CHIP	47uF	20%	16V
	C417	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C418	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C419	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C420	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C421	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C422	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C423	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
	C425	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C426	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C427	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C428	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C429	1-118-289-11	CERAMIC CHIP	0.1uF	10%	16V
	C430	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C431	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C432	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
	C436	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C437	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C441	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V
*	C442	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
	C443	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C444	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
*	C445	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
	C446	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C447	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C448	1-137-765-21	ELECT CHIP	47uF	20%	16V
	C449	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C504	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C505	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
	C506	1-116-705-11	CERAMIC CHIP	47uF	20%	16V
	C507	1-162-968-91	CERAMIC CHIP	0.0047uF	10%	50V
	C508	1-116-705-11	CERAMIC CHIP	47uF	20%	16V
	C509	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C510	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C511	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C512	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C513	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C515	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C517	1-116-734-11	CERAMIC CHIP	1uF	20%	16V
	C518	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C519	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C520	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C521	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C526	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C528	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C530	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C552	1-118-614-11	ELECT CHIP	10uF	20%	63V
*	C553	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
	C554	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C555	1-116-155-11	CERAMIC CHIP	82PF	1%	50V
	C556	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
	C558	1-114-736-11	CERAMIC CHIP	3.3uF	10%	10V
	C560	1-126-941-11	ELECT	470uF	20%	25V
	C561	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C562	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V
	C563	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C564	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
*	C565	1-116-735-11	CERAMIC CHIP	1uF	10%	16V

Note: When the C560 on the MAIN board is replaced, spread the bond referring to “BOND FIXATION OF ELECTRIC PARTS” on servicing notes (page 6).

	Ref. No.	Part No.	Description			Remark
	C566	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C567	1-118-354-11	CERAMIC CHIP	1000PF	5%	100V
*	C568	1-116-735-11	CERAMIC CHIP	1uF	10%	16V
	C569	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C601	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C602	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C603	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C604	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C605	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C606	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C607	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
	C608	1-118-289-11	CERAMIC CHIP	0.1uF	10%	16V
	C609	1-128-991-21	ELECT CHIP	10uF	20%	50V
	C610	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
	C611	1-116-911-21	CERAMIC CHIP	1uF	10%	250V
	C612	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C613	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C614	1-116-911-21	CERAMIC CHIP	1uF	10%	250V
	C615	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C616	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C617	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C618	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C619	1-118-289-11	CERAMIC CHIP	0.1uF	10%	16V
	C620	1-126-193-11	ELECT CHIP	1uF	20%	50V
	C621	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C622	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C625	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C626	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C627	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
	C628	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
	C629	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
	C630	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
	C631	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C632	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C633	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C634	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C635	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C636	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C637	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C638	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C639	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C641	1-116-911-21	CERAMIC CHIP	1uF	10%	250V
	C642	1-116-911-21	CERAMIC CHIP	1uF	10%	250V
	C643	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
	C644	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V
	C646	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C648	1-116-108-11	ELECT CHIP	330uF	20%	10V
	C649	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V
	C650	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V
	C651	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V
	C652	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V
	C653	1-128-555-91	ELECT	470uF	20%	63V
	C654	1-128-555-91	ELECT	470uF	20%	63V
	C657	1-118-047-11	CERAMIC CHIP	10uF	10%	16V
	C658	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C659	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C660	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C661	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C662	1-118-047-11	CERAMIC CHIP	10uF	10%	16V
	C663	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
	C664	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
*	C665	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
*	C666	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
*	C667	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
*	C668	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
	C669	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V
	C670	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C677	1-118-118-91	CERAMIC CHIP	0.22uF	10%	100V
	C678	1-118-118-91	CERAMIC CHIP	0.22uF	10%	100V
	C681	1-118-118-91	CERAMIC CHIP	0.22uF	10%	100V
	C682	1-118-118-91	CERAMIC CHIP	0.22uF	10%	100V
	C686	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C687	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C692	1-117-681-11	ELECT CHIP	100uF	20%	16V
	C693	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C694	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C695	1-116-405-11	CERAMIC CHIP	0.01uF	10%	100V
	C696	1-116-405-11	CERAMIC CHIP	0.01uF	10%	100V
	C697	1-116-405-11	CERAMIC CHIP	0.01uF	10%	100V
	C698	1-116-405-11	CERAMIC CHIP	0.01uF	10%	100V
	C699	1-112-107-11	ELECT	1000uF	20%	63V
	C700	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C701	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C702	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C703	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C704	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
	C709	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C710	1-128-992-21	ELECT CHIP	47uF	20%	25V
	C712	1-116-902-21	CERAMIC CHIP	0.001uF	10%	250V
	C713	1-116-902-21	CERAMIC CHIP	0.001uF	10%	250V
	C714	1-116-902-21	CERAMIC CHIP	0.001uF	10%	250V
	C715	1-116-902-21	CERAMIC CHIP	0.001uF	10%	250V
	C724	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
	C725	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
	C726	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
	C727	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
	C744	1-100-767-21	ELECT CHIP	220uF	20%	16V

< CONNECTOR >

	CN103	1-820-384-31	CONNECTOR, FFC/FPC (LIF) 8P
	CN104	1-815-762-31	CONNECTOR, FFC/FPC (LIF) 14P (BLUETOOTH)
	CN105	1-820-116-41	CONNECTOR, FFC/FPC 17P
	CN301	1-764-250-21	PIN, CONNECTOR (PC BOARD) 4P
*	CN303	1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD) 8P
	CN304	1-766-376-21	PIN, CONNECTOR (1.5MM) (SMD) 9P
	CN305	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P (US)
	CN503	1-691-773-11	PLUG (MICRO CONNECTOR) 11P
	CN504	1-819-131-11	PIN, CONNECTOR 3P
	CN601	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P
	CN602	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P

< DIODE >

D101	8-719-049-09	DIODE 1SS367-T3SONY
D102	8-719-053-18	DIODE 1SR154-400TE-25
D104	8-719-053-18	DIODE 1SR154-400TE-25
D107	6-502-961-01	DI DA2J10100L
D108	6-502-961-01	DI DA2J10100L
D302	6-500-400-01	DIODE BAV99-215
D506	8-719-058-24	DIODE RB501V-40TE-17
D507	6-500-864-01	DIODE RB050LA-40TR

Note 1: When the C653, C654 and C699 on the MAIN board are replaced, spread the bond referring to “BOND FIXATION OF ELECTRIC PARTS” on servicing notes (page 6).

Note 2: When CN301 is replaced, refer to “NOTICE OF CONNECTOR CHECK” (page 4).

GTK-X1BT

Ver. 1.1

MAIN

Ref. No.	Part No.	Description	Remark
D508	6-503-026-01	DI DZ2J120M0L	
D510	6-503-314-01	DI DA37103E0L	
D511	6-503-030-01	DI DZ2J160M0L	
D512	6-503-705-01	DI SJPJ-L3SVL	
D513	8-719-058-24	DIODE RB501V-40TE-17	
D601	6-500-400-01	DIODE BAV99-215	
D602	6-500-400-01	DIODE BAV99-215	
D603	6-500-400-01	DIODE BAV99-215	
D604	6-500-400-01	DIODE BAV99-215	
D605	6-503-732-01	DI SK310A-R3	
D606	6-503-732-01	DI SK310A-R3	
D607	6-503-732-01	DI SK310A-R3	
D608	6-503-732-01	DI SK310A-R3	
D609	6-500-400-01	DIODE BAV99-215	
		< FERRITE BEAD >	
FB101	1-400-331-11	FERRITE, EMI (SMD) (1005)	
FB102	1-400-331-11	FERRITE, EMI (SMD) (1005)	
FB301	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB304	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB501	1-469-670-21	FERRITE, EMI (SMD) (2012)	
		< FILTER >	
FL301	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
FL302	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
		< IC >	
IC101	A-2042-601-A	IC R5F3650NCDFB (for SERVICE)	
IC102	(Not supplied)	IC MFI337S3959	
IC104	6-716-462-01	IC BD00GA3WEFJ-E2	
IC105	6-718-378-01	IC BU4829F-TR	
IC302	6-715-344-01	IC MM3404A50URE	
IC304	6-715-164-01	IC TPS2553DBVR	
IC306	(Not supplied)	IC BU94502AMUV	
IC308	6-707-800-01	IC SRC4182	
IC309	6-716-697-01	IC TAS3108DCPR	
IC310	6-710-554-01	IC PCM1808PWR	
IC311	(Not supplied)	IC RN5B701-0002	
IC312	6-719-198-01	IC MM3411A33URE	
IC313	6-719-142-01	IC TC62D723FNG	
IC314	8-759-524-09	IC TC74VHC153FT (EL)	
IC315	8-759-524-09	IC TC74VHC153FT (EL)	
IC316	6-712-384-01	IC TC74VHC4052AFT (EK)	
IC401	8-759-596-39	IC SN74LV4052APWR	
IC402	8-759-909-71	IC BA4558F	
IC403	8-759-909-71	IC BA4558F	
IC504	6-720-441-01	IC TPS54260	
IC506	(Not supplied)	IC TPS542941PWPR	
IC512	6-718-380-01	IC TPS54232DR	
IC601	8-759-909-71	IC BA4558F	
IC602	8-759-909-71	IC BA4558F	
IC603	6-705-973-01	IC PCM1754DBQR	
IC604	6-716-817-01	IC TAS5630BPHDR	
IC605	6-705-973-01	IC PCM1754DBQR	
		< JACK >	
J001	1-842-375-11	CONNECTOR, FM ANTENNA (ANTENNA FM) (US)	
J001	1-843-951-11	FM ANTENNA JACK (ANTENNA FM)	(EXCEPT US)
J401	1-843-952-11	4P RCA JACK	(AUDIO OUT PARTY CHAIN OUT L/R, AUDIO IN PARTY CHAIN IN L/R)
		< JUMPER >	
JC603	1-216-864-11	SHORT CHIP 0	
JC604	1-216-864-11	SHORT CHIP 0	
JC605	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L301	1-481-524-11	INDUCTOR 10uH	
L303	1-481-336-21	INDUCTOR 22nH	
L304	1-414-851-21	INDUCTOR 47nH	
L305	1-414-851-21	INDUCTOR 47nH	
L306	1-481-336-21	INDUCTOR 22nH	
L501	1-460-359-11	INDUCTOR 4.7uH	
L502	1-460-359-11	INDUCTOR 4.7uH	
L503	1-460-646-11	INDUCTOR 47uH	
L509	1-460-503-11	INDUCTOR 10uH	
L601	1-400-793-21	INDUCTOR 47uH	
L602	1-457-078-11	AIR-CORE COIL	
L603	1-457-078-11	AIR-CORE COIL	
L604	1-482-158-11	INDUCTOR 10uH	
L605	1-482-158-11	INDUCTOR 10uH	
L607	1-457-077-11	AIR-CORE COIL	
L608	1-457-077-11	AIR-CORE COIL	
		< TRANSISTOR >	
Q101	6-551-728-01	TRANSISTOR 2SB1710TL	
Q102	6-552-936-01	TR LTC014EUBFS8TL	
Q105	6-552-936-01	TR LTC014EUBFS8TL	
Q106	6-552-936-01	TR LTC014EUBFS8TL	
Q301	6-552-936-01	TR LTC014EUBFS8TL	
Q402	6-551-039-01	TRANSISTOR RN4902 (T5RSONY, D, F)	
* Q403	6-551-959-01	TR IMX25T110	
Q404	8-729-427-72	TRANSISTOR XP4501	
Q405	6-551-039-01	TRANSISTOR RN4902 (T5RSONY, D, F)	
Q407	6-550-978-01	TR RN1902	
Q408	6-552-922-01	TR LTA014EUBFS8TL	
Q504	6-552-137-01	TR 2SA2166-T112-1W	
Q505	6-553-083-01	TR PBSS4160T	
Q506	6-552-892-01	TR LSCR523UBFS8TL	
Q507	6-552-892-01	TR LSCR523UBFS8TL	
Q508	6-550-978-01	TR RN1902	
Q509	6-551-728-01	TRANSISTOR 2SB1710TL	
Q510	6-551-728-01	TRANSISTOR 2SB1710TL	
Q511	6-552-892-01	TR LSCR523UBFS8TL	
Q601	8-729-427-72	TRANSISTOR XP4501	
Q602	8-729-216-22	TRANSISTOR 2SA1162-G	
Q603	8-729-216-22	TRANSISTOR 2SA1162-G	
Q604	8-729-216-22	TRANSISTOR 2SA1162-G	
Q605	8-729-216-22	TRANSISTOR 2SA1162-G	
Q606	6-552-892-01	TR LSCR523UBFS8TL	
Q607	6-552-892-01	TR LSCR523UBFS8TL	
Q610	6-551-728-01	TRANSISTOR 2SB1710TL	
Q611	6-552-892-01	TR LSCR523UBFS8TL	
Q612	6-552-922-01	TR LTA014EUBFS8TL	

Note 1: IC102, IC306, IC311 and IC506 on the MAIN board cannot exchange with single. When these parts on the MAIN board are damaged, exchange the entire mounted board.

Note 2: When the IC604 on the MAIN board is replaced, spread the compound referring to “NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD” on servicing notes (page 4).

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-218-941-81	METAL CHIP	100	5%	1/16W
R102	1-218-941-81	METAL CHIP	100	5%	1/16W
R103	1-218-941-81	METAL CHIP	100	5%	1/16W
R104	1-218-941-81	METAL CHIP	100	5%	1/16W
R105	1-218-941-81	METAL CHIP	100	5%	1/16W
R106	1-218-965-11	METAL CHIP	10K	5%	1/16W
R109	1-218-941-81	METAL CHIP	100	5%	1/16W
R110	1-245-604-11	METAL CHIP	10M	5%	1/16W
R111	1-218-981-81	METAL CHIP	220K	5%	1/16W
R112	1-218-941-81	METAL CHIP	100	5%	1/16W
R113	1-218-990-81	SHORT CHIP	0		
R114	1-218-965-11	METAL CHIP	10K	5%	1/16W
R115	1-218-989-11	METAL CHIP	1M	5%	1/16W
R116	1-218-941-81	METAL CHIP	100	5%	1/16W
R117	1-218-965-11	METAL CHIP	10K	5%	1/16W
R118	1-218-941-81	METAL CHIP	100	5%	1/16W
R120	1-218-973-11	METAL CHIP	47K	5%	1/16W
R121	1-218-990-81	SHORT CHIP	0		
R122	1-218-990-81	SHORT CHIP	0		
R123	1-218-941-81	METAL CHIP	100	5%	1/16W
R124	1-218-941-81	METAL CHIP	100	5%	1/16W
R125	1-218-941-81	METAL CHIP	100	5%	1/16W
R126	1-218-941-81	METAL CHIP	100	5%	1/16W
R127	1-218-941-81	METAL CHIP	100	5%	1/16W
R128	1-218-941-81	METAL CHIP	100	5%	1/16W
R129	1-218-941-81	METAL CHIP	100	5%	1/16W
R130	1-218-941-81	METAL CHIP	100	5%	1/16W
R131	1-218-990-81	SHORT CHIP	0		
R132	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R133	1-218-990-81	SHORT CHIP	0		
R134	1-218-941-81	METAL CHIP	100	5%	1/16W
R135	1-218-953-11	METAL CHIP	1K	5%	1/16W
R139	1-216-847-11	METAL CHIP	150K	5%	1/10W
R142	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R143	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R144	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R145	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R146	1-218-965-11	METAL CHIP	10K	5%	1/16W
R147	1-218-965-11	METAL CHIP	10K	5%	1/16W
R148	1-218-965-11	METAL CHIP	10K	5%	1/16W
R149	1-218-965-11	METAL CHIP	10K	5%	1/16W
R150	1-218-965-11	METAL CHIP	10K	5%	1/16W
R151	1-216-833-11	METAL CHIP	10K	5%	1/10W
R152	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R153	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R154	1-218-977-11	METAL CHIP	100K	5%	1/16W
R155	1-218-977-11	METAL CHIP	100K	5%	1/16W
R156	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R157	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R158	1-218-977-11	METAL CHIP	100K	5%	1/16W
R159	1-218-965-11	METAL CHIP	10K	5%	1/16W
R160	1-218-965-11	METAL CHIP	10K	5%	1/16W
R161	1-218-965-11	METAL CHIP	10K	5%	1/16W
R162	1-218-965-11	METAL CHIP	10K	5%	1/16W
R164	1-218-941-81	METAL CHIP	100	5%	1/16W
R165	1-218-941-81	METAL CHIP	100	5%	1/16W
R166	1-218-941-81	METAL CHIP	100	5%	1/16W
R167	1-218-961-11	METAL CHIP	4.7K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R168	1-218-955-11	METAL CHIP	1.5K	5%	1/16W (AUS)
R168	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (EXCEPT AEP, UK, AUS)
R170	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R171	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R172	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R174	1-216-864-11	SHORT CHIP	0		
R175	1-218-965-11	METAL CHIP	10K	5%	1/16W
R178	1-218-973-11	METAL CHIP	47K	5%	1/16W
R179	1-218-965-11	METAL CHIP	10K	5%	1/16W
R180	1-218-941-81	METAL CHIP	100	5%	1/16W
R181	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R182	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R183	1-218-965-11	METAL CHIP	10K	5%	1/16W
R190	1-218-941-81	METAL CHIP	100	5%	1/16W
R191	1-218-941-81	METAL CHIP	100	5%	1/16W
R192	1-218-941-81	METAL CHIP	100	5%	1/16W
R193	1-218-941-81	METAL CHIP	100	5%	1/16W
R194	1-218-941-81	METAL CHIP	100	5%	1/16W
R195	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R196	1-218-943-11	METAL CHIP	150	5%	1/16W (RU)
R196	1-218-951-11	METAL CHIP	680	5%	1/16W (MX)
R196	1-218-953-11	METAL CHIP	1K	5%	1/16W (E2, E51, AR)
R196	1-218-957-11	METAL CHIP	2.2K	5%	1/16W (US)
R196	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (AEP, UK, AUS)
R197	1-218-941-81	METAL CHIP	100	5%	1/16W
R198	1-218-941-81	METAL CHIP	100	5%	1/16W
R210	1-218-941-81	METAL CHIP	100	5%	1/16W
R223	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R224	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R225	1-218-953-11	METAL CHIP	1K	5%	1/16W
R226	1-218-953-11	METAL CHIP	1K	5%	1/16W
R227	1-218-965-11	METAL CHIP	10K	5%	1/16W
R228	1-218-965-11	METAL CHIP	10K	5%	1/16W
R229	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R230	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R231	1-216-864-11	SHORT CHIP	0		
R280	1-218-929-11	METAL CHIP	10	5%	1/16W
R281	1-218-929-11	METAL CHIP	10	5%	1/16W
R283	1-218-941-81	METAL CHIP	100	5%	1/16W
R284	1-218-929-11	METAL CHIP	10	5%	1/16W
R286	1-218-929-11	METAL CHIP	10	5%	1/16W
R287	1-218-929-11	METAL CHIP	10	5%	1/16W
R289	1-218-929-11	METAL CHIP	10	5%	1/16W
R291	1-218-941-81	METAL CHIP	100	5%	1/16W
R292	1-218-929-11	METAL CHIP	10	5%	1/16W
R293	1-216-296-11	SHORT CHIP	0		
R294	1-216-296-11	SHORT CHIP	0		
R295	1-218-929-11	METAL CHIP	10	5%	1/16W
R296	1-218-929-11	METAL CHIP	10	5%	1/16W
R297	1-218-929-11	METAL CHIP	10	5%	1/16W
R299	1-218-941-81	METAL CHIP	100	5%	1/16W
R300	1-216-815-11	METAL CHIP	330	5%	1/10W
R301	1-216-815-11	METAL CHIP	330	5%	1/10W
R302	1-216-819-11	METAL CHIP	680	5%	1/10W

GTK-X1BT

Ver. 1.1

MAIN

Ref. No.	Part No.	Description			Remark
R303	1-216-817-11	METAL CHIP	470	5%	1/10W
R304	1-216-817-11	METAL CHIP	470	5%	1/10W
R305	1-216-817-11	METAL CHIP	470	5%	1/10W
R306	1-216-817-11	METAL CHIP	470	5%	1/10W
R307	1-216-819-11	METAL CHIP	680	5%	1/10W
R308	1-216-812-11	METAL CHIP	180	5%	1/10W
R309	1-216-812-11	METAL CHIP	180	5%	1/10W
R310	1-216-812-11	METAL CHIP	180	5%	1/10W
R311	1-216-812-11	METAL CHIP	180	5%	1/10W
R312	1-216-864-11	SHORT CHIP	0		
R313	1-216-296-11	SHORT CHIP	0		
R314	1-218-990-81	SHORT CHIP	0		
R315	1-218-965-11	METAL CHIP	10K	5%	1/16W
R316	1-218-965-11	METAL CHIP	10K	5%	1/16W
R317	1-218-941-81	METAL CHIP	100	5%	1/16W
R318	1-218-933-11	METAL CHIP	22	5%	1/16W
R319	1-218-933-11	METAL CHIP	22	5%	1/16W
R320	1-218-941-81	METAL CHIP	100	5%	1/16W
R322	1-218-990-81	SHORT CHIP	0		
R324	1-218-956-11	METAL CHIP	1.8K	5%	1/16W
R326	1-218-941-81	METAL CHIP	100	5%	1/16W
R327	1-218-941-81	METAL CHIP	100	5%	1/16W
R328	1-218-929-11	METAL CHIP	10	5%	1/16W
R329	1-218-929-11	METAL CHIP	10	5%	1/16W
R330	1-218-933-11	METAL CHIP	22	5%	1/16W
R331	1-218-929-11	METAL CHIP	10	5%	1/16W
R333	1-218-941-81	METAL CHIP	100	5%	1/16W
R334	1-218-941-81	METAL CHIP	100	5%	1/16W
R335	1-218-941-81	METAL CHIP	100	5%	1/16W
R336	1-218-941-81	METAL CHIP	100	5%	1/16W
R337	1-218-941-81	METAL CHIP	100	5%	1/16W
R338	1-218-941-81	METAL CHIP	100	5%	1/16W
R339	1-218-965-11	METAL CHIP	10K	5%	1/16W
R340	1-218-941-81	METAL CHIP	100	5%	1/16W
R342	1-218-953-11	METAL CHIP	1K	5%	1/16W
R343	1-218-941-81	METAL CHIP	100	5%	1/16W
R344	1-218-989-11	METAL CHIP	1M	5%	1/16W
R345	1-208-709-11	METAL CHIP	12K	0.5%	1/16W
R346	1-220-803-81	METAL CHIP	4.7	5%	1/16W
R347	1-220-803-81	METAL CHIP	4.7	5%	1/16W
R348	1-218-965-11	METAL CHIP	10K	5%	1/16W
R349	1-218-965-11	METAL CHIP	10K	5%	1/16W
R350	1-208-713-11	METAL CHIP	18K	0.5%	1/16W
R351	1-216-295-91	SHORT CHIP	0		
R353	1-218-941-81	METAL CHIP	100	5%	1/16W
R356	1-218-990-81	SHORT CHIP	0		
R357	1-218-990-81	SHORT CHIP	0		
R358	1-218-965-11	METAL CHIP	10K	5%	1/16W
R359	1-218-941-81	METAL CHIP	100	5%	1/16W
R361	1-218-941-81	METAL CHIP	100	5%	1/16W
R362	1-218-941-81	METAL CHIP	100	5%	1/16W
R363	1-218-941-81	METAL CHIP	100	5%	1/16W
R364	1-216-833-11	METAL CHIP	10K	5%	1/10W
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W
R366	1-218-990-81	SHORT CHIP	0		
R367	1-218-941-81	METAL CHIP	100	5%	1/16W
R368	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R370	1-218-990-81	SHORT CHIP	0		
R371	1-218-929-11	METAL CHIP	10	5%	1/16W
R372	1-218-929-11	METAL CHIP	10	5%	1/16W
R373	1-218-929-11	METAL CHIP	10	5%	1/16W
R374	1-218-929-11	METAL CHIP	10	5%	1/16W
R375	1-218-933-11	METAL CHIP	22	5%	1/16W
R376	1-218-929-11	METAL CHIP	10	5%	1/16W
R377	1-218-929-11	METAL CHIP	10	5%	1/16W
R378	1-218-941-81	METAL CHIP	100	5%	1/16W
R381	1-216-864-11	SHORT CHIP	0		
R383	1-218-965-11	METAL CHIP	10K	5%	1/16W
R386	1-218-977-11	METAL CHIP	100K	5%	1/16W
R387	1-218-989-11	METAL CHIP	1M	5%	1/16W
R388	1-218-989-11	METAL CHIP	1M	5%	1/16W
R389	1-218-977-11	METAL CHIP	100K	5%	1/16W
R390	1-218-953-11	METAL CHIP	1K	5%	1/16W
R391	1-218-953-11	METAL CHIP	1K	5%	1/16W
R392	1-218-990-81	SHORT CHIP	0		
R398	1-218-941-81	METAL CHIP	100	5%	1/16W
R400	1-216-296-11	SHORT CHIP	0		
R401	1-216-296-11	SHORT CHIP	0		
R402	1-216-296-11	SHORT CHIP	0		
R403	1-218-969-11	METAL CHIP	22K	5%	1/16W
R404	1-218-967-11	METAL CHIP	15K	5%	1/16W
R405	1-216-296-11	SHORT CHIP	0		
R406	1-216-296-11	SHORT CHIP	0		
R408	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R411	1-216-842-11	METAL CHIP	56K	5%	1/10W
R412	1-216-842-11	METAL CHIP	56K	5%	1/10W
R413	1-216-853-11	METAL CHIP	470K	5%	1/10W
R414	1-216-853-11	METAL CHIP	470K	5%	1/10W
R415	1-218-973-11	METAL CHIP	47K	5%	1/16W
R416	1-216-864-11	SHORT CHIP	0		
R419	1-216-864-11	SHORT CHIP	0		
R421	1-216-296-11	SHORT CHIP	0		
R422	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R423	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R424	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R425	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R426	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R427	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R428	1-218-965-11	METAL CHIP	10K	5%	1/16W
R429	1-218-965-11	METAL CHIP	10K	5%	1/16W
R430	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R431	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R432	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R433	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R434	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R435	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R436	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R437	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R438	1-216-853-11	METAL CHIP	470K	5%	1/10W
R439	1-216-853-11	METAL CHIP	470K	5%	1/10W
R440	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R443	1-216-296-11	SHORT CHIP	0		
R444	1-220-221-11	METAL CHIP	100	5%	1/2W
R445	1-220-258-11	METAL CHIP	100	5%	1/4W
R446	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R447	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R448	1-216-837-11	METAL CHIP	22K	5%	1/10W
R449	1-218-973-11	METAL CHIP	47K	5%	1/16W
R450	1-216-296-11	SHORT CHIP	0		
R465	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R466	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R467	1-218-891-11	METAL CHIP	68K	0.5%	1/10W
R468	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R469	1-218-891-11	METAL CHIP	68K	0.5%	1/10W
R470	1-216-844-11	METAL CHIP	82K	5%	1/10W
R471	1-216-843-11	METAL CHIP	68K	5%	1/10W
R472	1-216-844-11	METAL CHIP	82K	5%	1/10W
R473	1-216-843-11	METAL CHIP	68K	5%	1/10W
R474	1-216-837-11	METAL CHIP	22K	5%	1/10W
R476	1-216-841-11	METAL CHIP	47K	5%	1/10W
R477	1-216-857-11	METAL CHIP	1M	5%	1/10W
R478	1-216-841-11	METAL CHIP	47K	5%	1/10W
R479	1-216-841-11	METAL CHIP	47K	5%	1/10W
R480	1-216-841-11	METAL CHIP	47K	5%	1/10W
R481	1-216-857-11	METAL CHIP	1M	5%	1/10W
R482	1-216-841-11	METAL CHIP	47K	5%	1/10W
R483	1-216-841-11	METAL CHIP	47K	5%	1/10W
R484	1-216-841-11	METAL CHIP	47K	5%	1/10W
R485	1-216-857-11	METAL CHIP	1M	5%	1/10W
R486	1-216-841-11	METAL CHIP	47K	5%	1/10W
R487	1-216-841-11	METAL CHIP	47K	5%	1/10W
R488	1-216-841-11	METAL CHIP	47K	5%	1/10W
R489	1-216-857-11	METAL CHIP	1M	5%	1/10W
R490	1-216-841-11	METAL CHIP	47K	5%	1/10W
R491	1-216-841-11	METAL CHIP	47K	5%	1/10W
R494	1-218-941-81	METAL CHIP	100	5%	1/16W
R495	1-216-809-11	METAL CHIP	100	5%	1/10W
R496	1-218-941-81	METAL CHIP	100	5%	1/16W
R497	1-216-809-11	METAL CHIP	100	5%	1/10W
R498	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R499	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R500	1-216-843-11	METAL CHIP	68K	5%	1/10W
R501	1-216-843-11	METAL CHIP	68K	5%	1/10W
R502	1-216-853-11	METAL CHIP	470K	5%	1/10W
R503	1-216-853-11	METAL CHIP	470K	5%	1/10W
R504	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R505	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R506	1-216-864-11	SHORT CHIP	0		
R507	1-216-864-11	SHORT CHIP	0		
R510	1-216-296-11	SHORT CHIP	0		
R514	1-216-837-11	METAL CHIP	22K	5%	1/10W
R515	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R516	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R517	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R518	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R519	1-216-833-11	METAL CHIP	10K	5%	1/10W
R520	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R521	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R522	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R523	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W
R526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R537	1-216-833-11	METAL CHIP	10K	5%	1/10W
R538	1-216-835-11	METAL CHIP	15K	5%	1/10W
R539	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R540	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R541	1-216-843-11	METAL CHIP	68K	5%	1/10W
R542	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R543	1-216-843-11	METAL CHIP	68K	5%	1/10W
R544	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R545	1-216-843-11	METAL CHIP	68K	5%	1/10W
R546	1-216-837-11	METAL CHIP	22K	5%	1/10W
R547	1-216-839-11	METAL CHIP	33K	5%	1/10W
R548	1-216-839-11	METAL CHIP	33K	5%	1/10W
R549	1-216-837-11	METAL CHIP	22K	5%	1/10W
R550	1-216-852-11	METAL CHIP	390K	5%	1/10W
R551	1-216-841-11	METAL CHIP	47K	5%	1/10W
R552	1-216-839-11	METAL CHIP	33K	5%	1/10W
R553	1-216-864-11	SHORT CHIP	0		
R554	1-216-296-11	SHORT CHIP	0		
R555	1-216-296-11	SHORT CHIP	0		
R556	1-218-990-81	SHORT CHIP	0		
R557	1-216-851-11	METAL CHIP	330K	5%	1/10W
R558	1-216-839-11	METAL CHIP	33K	5%	1/10W
R559	1-216-837-11	METAL CHIP	22K	5%	1/10W
R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R566	1-218-953-11	METAL CHIP	1K	5%	1/16W
R567	1-208-922-11	METAL CHIP	30K	0.5%	1/16W
R570	1-218-978-11	METAL CHIP	120K	5%	1/16W
R571	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R572	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W
R573	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R575	1-218-968-11	METAL CHIP	18K	5%	1/16W
R576	1-218-973-11	METAL CHIP	47K	5%	1/16W
R578	1-216-864-11	SHORT CHIP	0		
R585	1-216-296-11	SHORT CHIP	0		
R586	1-216-296-11	SHORT CHIP	0		
R587	1-216-296-11	SHORT CHIP	0		
R588	1-216-864-11	SHORT CHIP	0		
R589	1-216-296-11	SHORT CHIP	0		
R592	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R593	1-216-063-91	METAL CHIP	3.9K	5%	1/10W
R597	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R598	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R599	1-216-296-11	SHORT CHIP	0		
R600	1-216-296-11	SHORT CHIP	0		
R601	1-218-945-11	METAL CHIP	220	5%	1/16W
R602	1-218-945-11	METAL CHIP	220	5%	1/16W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R604	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R606	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R607	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R608	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R609	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R610	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R613	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R614	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R615	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R616	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R617	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R618	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R619	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R620	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R621	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R622	1-218-857-11	METAL CHIP	2.7K	0.5%	1/10W
R623	1-216-837-11	METAL CHIP	22K	5%	1/10W
R624	1-216-841-11	METAL CHIP	47K	5%	1/10W
R625	1-216-845-11	METAL CHIP	100K	5%	1/10W
R626	1-216-845-11	METAL CHIP	100K	5%	1/10W

GTK-X1BT

Ver. 1.1

MAIN **PLAY** **POWER**

Ref. No.	Part No.	Description			Remark
R627	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-849-11	METAL CHIP	220K	5%	1/10W
R629	1-216-849-11	METAL CHIP	220K	5%	1/10W
R630	1-216-849-11	METAL CHIP	220K	5%	1/10W
R631	1-216-849-11	METAL CHIP	220K	5%	1/10W
R632	1-216-849-11	METAL CHIP	220K	5%	1/10W
R633	1-216-849-11	METAL CHIP	220K	5%	1/10W
R634	1-216-841-11	METAL CHIP	47K	5%	1/10W
R636	1-218-929-11	METAL CHIP	10	5%	1/16W
R637	1-218-929-11	METAL CHIP	10	5%	1/16W
R638	1-218-929-11	METAL CHIP	10	5%	1/16W
R640	1-218-941-81	METAL CHIP	100	5%	1/16W
R641	1-218-941-81	METAL CHIP	100	5%	1/16W
R642	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R643	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R644	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R645	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R646	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R647	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R648	1-218-953-11	METAL CHIP	1K	5%	1/16W
R649	1-218-941-81	METAL CHIP	100	5%	1/16W
R650	1-216-809-11	METAL CHIP	100	5%	1/10W
R651	1-216-809-11	METAL CHIP	100	5%	1/10W
R652	1-216-809-11	METAL CHIP	100	5%	1/10W
R653	1-216-809-11	METAL CHIP	100	5%	1/10W
R654	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R655	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R656	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R657	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R660	1-250-519-11	METAL CHIP	10K	1%	1/16W
R669	1-216-842-11	METAL CHIP	56K	5%	1/10W
R670	1-216-842-11	METAL CHIP	56K	5%	1/10W
R671	1-216-842-11	METAL CHIP	56K	5%	1/10W
R672	1-216-842-11	METAL CHIP	56K	5%	1/10W
R673	1-216-837-11	METAL CHIP	22K	5%	1/10W
R674	1-257-603-11	RES-CHIP	33	5%	2W
R675	1-257-603-11	RES-CHIP	33	5%	2W
R676	1-257-603-11	RES-CHIP	33	5%	2W
R677	1-257-603-11	RES-CHIP	33	5%	2W
R678	1-257-603-11	RES-CHIP	33	5%	2W
R679	1-257-603-11	RES-CHIP	33	5%	2W
R680	1-257-603-11	RES-CHIP	33	5%	2W
R681	1-257-603-11	RES-CHIP	33	5%	2W
R684	1-218-929-11	METAL CHIP	10	5%	1/16W
R685	1-218-929-11	METAL CHIP	10	5%	1/16W
R686	1-218-929-11	METAL CHIP	10	5%	1/16W
R688	1-216-864-11	SHORT CHIP	0		
R689	1-216-864-11	SHORT CHIP	0		
R692	1-216-841-11	METAL CHIP	47K	5%	1/10W
R693	1-216-845-11	METAL CHIP	100K	5%	1/10W
R694	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R695	1-216-833-11	METAL CHIP	10K	5%	1/10W
R696	1-216-834-11	METAL CHIP	12K	5%	1/10W
R701	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R702	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R703	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R704	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RB101	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB102	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB103	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB104	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB304	1-234-372-11	RES, NETWORK 100 (1005X4)			
		< SWITCH >			
SE101	1-492-774-11	RPI-1035 SLANT SENSOR			
		< VIBRATOR >			
X101	1-814-446-11	QUARTZ CRYSTAL UNIT (8MHz)			
X102	1-814-273-11	QUARTZ CRYSTAL UNIT (32.768kHz)			
X301	1-814-466-11	QUARTZ CRYSTAL UNITS (12.288MHz)			
X302	1-814-450-11	QUARTZ CRYSTAL UNITS (16.9344MHz)			
X303	1-814-365-11	QUARTZ CRYSTAL UNITS (12MHz)			
**********					
		PLAY BOARD			
		**********			
		< RESISTOR >			
R1250	1-216-819-11	METAL CHIP	680	5%	1/10W
R1251	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1252	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
		< SWITCH >			
SE1250	1-762-875-21	SWITCH, TACTILE (►II)			
SE1251	1-762-875-21	SWITCH, TACTILE (TUNING – ◄◄ I◄◄)			
SE1252	1-762-875-21	SWITCH, TACTILE (TUNING + ►► ►►I)			
SE1253	1-762-875-21	SWITCH, TACTILE (■)			
**********					
		POWER BOARD			
		************			
		< CONNECTOR >			
CN1200	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< DIODE >			
D1200	6-503-388-01	DI 1L0352B13F0MIT02			
		< JUMPER RESISTOR >			
JR1200	1-216-296-11	SHORT CHIP	0		
		< TRANSISTOR >			
Q1200	6-552-941-01	TR	LTC023JUBFS8TL		
		< RESISTOR >			
R1200	1-216-813-11	METAL CHIP	220	5%	1/10W
R1201	1-216-819-11	METAL CHIP	680	5%	1/10W
R1202	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1203	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1204	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
SE1200	1-762-875-21	SWITCH, TACTILE (BLUETOOTH CONNECTION/ ⬬ PAIRING)			
SE1201	1-762-875-21	SWITCH, TACTILE (I/⏻)			
SE1202	1-762-875-21	SWITCH, TACTILE (PARTY CHAIN)			
SE1203	1-762-875-21	SWITCH, TACTILE (🗀–)			
SE1204	1-762-875-21	SWITCH, TACTILE (🗀+)			

Ref. No.	Part No.	Description				Remark
SE1205	1-762-875-21	SWITCH, TACTILE (FUNCTION)				
**********						
	A-1979-293-A	SMPS BOARD, COMPLETE (US, E51)				
	A-2043-892-A	SMPS BOARD, COMPLETE (AEP, UK, RU)				
	A-2045-494-A	SMPS BOARD, COMPLETE (E2, MX, AR)				
	A-2045-496-A	SMPS BOARD, COMPLETE (MY, AUS)				
		**********				
	4-151-153-21	SCREW, +PSW M3X10 (SPECIAL NECK)				
		< CAPACITOR >				
C900	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
⚠ C902	1-112-869-51	CERAMIC	470PF	10%	250V	
⚠ C903	1-112-869-51	CERAMIC	470PF	10%	250V	
⚠ C904	1-116-397-21	FILM	0.33uF	10%	310V	
⚠ C905	1-114-721-21	FILM	0.1uF	10%	310V	
⚠ C906	1-112-869-51	CERAMIC	470PF	10%	250V	
⚠ C909	1-114-347-22	ELECT (BLOCK)	330uF	20%	450V	
⚠ C910	1-112-869-51	CERAMIC	470PF	10%	250V	
C911	1-116-033-91	FILM	0.01uF	5%	400V	
C912	1-127-804-91	CERAMIC CHIP	100PF	1%	50V	
C914	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
C915	1-126-963-11	ELECT	4.7uF	20%	50V	(E2, MX, MY, AR, AUS)
C915	1-126-964-11	ELECT	10uF	20%	50V	(US, AEP, UK, RU, E51)
C916	1-126-960-11	ELECT	1uF	20%	50V	
C917	1-116-739-11	CERAMIC CHIP	0.47uF	10%	50V	
C918	1-118-036-11	CERAMIC CHIP	0.1uF	10%	50V	
C920	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C922	1-117-815-11	FILM	1000PF	3%	1.5KV	
C924	1-126-965-91	ELECT	22uF	20%	50V	
C926	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C927	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V	
C928	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V	
C931	1-128-578-11	ELECT	1uF	20%	100V	
C932	1-118-289-11	CERAMIC CHIP	0.1uF	10%	16V	
C935	1-100-756-91	CERAMIC CHIP	0.047uF	10%	50V	
C936	1-100-158-91	CERAMIC CHIP	1000PF	5%	100V	
C937	1-165-761-21	ELECT	1200uF	20%	63V	
C940	1-128-582-11	ELECT	10uF	20%	100V	
C943	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V	
⚠ C946	1-112-869-51	CERAMIC	470PF	10%	250V	
⚠ C947	1-112-869-51	CERAMIC	470PF	10%	250V	
C948	1-116-033-91	FILM	0.01uF	5%	400V	
C954	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V	
		< CONNECTOR >				
⚠ CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P				
		< DIODE >				
D901	6-503-731-01	DI SARS10				
D902	6-503-696-01	DI KBJ1006G				
D903	6-502-970-01	DI DZ2J068M0L				
D904	6-503-032-01	DI DZ2J180M0L				
D905	6-503-987-01	DI RF05VAM2STR				
D906	6-503-987-01	DI RF05VAM2STR				
D907	8-719-063-74	DIODE D1NL20U-TR2				
D909	6-502-961-01	DI DA2J10100L				
D910	6-503-037-01	DI DZ2J24000L				
D911	6-503-030-01	DI DZ2J160M0L				

Note: When the C904, C911, C931, C937, C948, Q904 and Q905 on the SMPS board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

Ref. No.	Part No.	Description	Remark
D912	6-502-961-01	DI DA2J10100L	
D913	6-502-970-01	DI DZ2J068M0L	
D914	6-502-961-01	DI DA2J10100L	
D915	6-502-961-01	DI DA2J10100L	
D917	6-503-040-01	DI DZ2J300M0L	
D919	6-503-040-01	DI DZ2J300M0L	
D920	6-503-020-01	DI DZ2J082M0L	
D921	6-503-042-01	DI DZ2J330M0L	
D922	6-503-040-01	DI DZ2J300M0L	
D1000	6-503-235-01	DI DA3J101F0L	
D1001	6-502-970-01	DI DZ2J068M0L	
D1002	6-503-038-01	DI DZ2J27000L	
D1003	6-503-015-01	DI DZ2J051M0L	
D1004	6-503-036-01	DI DZ2J220M0L	
D1006	6-501-849-01	DIODE FMX-22SL	
D1008	6-500-514-01	DIODE BAV70	
D1009	6-503-022-01	DI DZ2J100M0L	
D1012	6-503-038-01	DI DZ2J27000L	
D1013	6-503-039-01	DI DZ2J30000L	
D1014	6-503-020-01	DI DZ2J082M0L	
		< FUSE >	
⚠ F901	1-576-395-51	FUSE (10A/250V)	
		< IC >	
IC900	6-718-560-01	IC SSC6700	
IC901	6-711-947-01	IC MM1431CURE	
		< COIL >	
⚠ L903	1-445-841-11	TRANSFORMER, LINE FILTER	(AEP, UK, RU, MY, AUS)
⚠ L904	1-445-841-11	TRANSFORMER, LINE FILTER	
		< PHOTO COUPLER >	
⚠ PH900	6-600-277-11	PHOTOCOUPLER PS2561AL-1-V-F3-A	
⚠ PH901	6-600-277-11	PHOTOCOUPLER PS2561AL-1-V-F3-A	
⚠ PH902	6-600-277-11	PHOTOCOUPLER PS2561AL-1-V-F3-A	
		< TRANSISTOR >	
Q900	6-553-267-01	TR 2PB709ART	
Q901	6-553-069-01	TR KTC3209-Y-AT	
Q902	6-553-267-01	TR 2PB709ART	
Q903	6-552-892-01	TR LSCR523UBFS8TL	
Q904	6-553-069-01	TR KTC3209-Y-AT	
Q905	8-729-052-82	TRANSISTOR KTA1281Y-AT	
Q906	6-552-471-01	TR FMV10N80E	
Q907	6-552-471-01	TR FMV10N80E	
Q908	6-552-892-01	TR LSCR523UBFS8TL	
Q909	6-552-892-01	TR LSCR523UBFS8TL	
Q910	6-553-267-01	TR 2PB709ART	
Q911	6-552-892-01	TR LSCR523UBFS8TL	
Q912	6-552-922-01	TR LTA014EUBFS8TL	
Q913	6-552-892-01	TR LSCR523UBFS8TL	
Q914	6-553-267-01	TR 2PB709ART	
Q915	6-552-892-01	TR LSCR523UBFS8TL	
Q916	6-553-268-01	TR PDTC114ET	
Q917	6-552-892-01	TR LSCR523UBFS8TL	
Q918	6-552-892-01	TR LSCR523UBFS8TL	
Q919	6-552-892-01	TR LSCR523UBFS8TL	

GTK-X1BT

Ver. 1.4

SMPS **SPK LEFT**

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
⚠ R901	1-240-938-51	METAL	1.5M	5%	0.5W
R914	1-246-374-11	FUSIBLE	0.1	10%	1W
R916	1-216-845-11	METAL CHIP	100K	5%	1/10W
R917	1-216-797-11	METAL CHIP	10	5%	1/10W
R918	1-216-801-11	METAL CHIP	22	5%	1/10W
R919	1-216-218-91	METAL CHIP	6.8K	5%	1/4W
R920	1-216-821-11	METAL CHIP	1K	5%	1/10W
R921	1-216-797-11	METAL CHIP	10	5%	1/10W
R922	1-216-821-11	METAL CHIP	1K	5%	1/10W
R923	1-216-821-11	METAL CHIP	1K	5%	1/10W
R924	1-215-924-00	METAL OXIDE	15K	5%	3W
R925	1-215-924-00	METAL OXIDE	15K	5%	3W
R926	1-216-853-11	METAL CHIP	470K	5%	1/10W
R927	1-216-214-00	METAL CHIP	4.7K	5%	1/4W
R929	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R931	1-216-837-11	METAL CHIP	22K	5%	1/10W
R932	1-216-837-11	METAL CHIP	22K	5%	1/10W
R933	1-216-845-11	METAL CHIP	100K	5%	1/10W
R934	1-216-833-11	METAL CHIP	10K	5%	1/10W
R935	1-216-821-11	METAL CHIP	1K	5%	1/10W
R936	1-216-190-00	METAL CHIP	470	5%	1/4W
R937	1-216-809-11	METAL CHIP	100	5%	1/10W
R938	1-216-844-11	METAL CHIP	82K	5%	1/10W
R939	1-216-218-91	METAL CHIP	6.8K	5%	1/4W
R940	1-216-210-00	METAL CHIP	3.3K	5%	1/4W
R941	1-216-177-00	METAL CHIP	130	5%	1/4W
R942	1-249-401-11	CARBON	47	5%	1/4W
R943	1-249-401-11	CARBON	47	5%	1/4W
R944	1-249-402-11	CARBON	56	5%	1/4W
R945	1-249-402-11	CARBON	56	5%	1/4W
R946	1-216-833-11	METAL CHIP	10K	5%	1/10W
R947	1-243-670-11	METAL	0.1	5%	5W
R948	1-245-415-11	METAL	0.15	10%	5W
R949	1-216-821-11	METAL CHIP	1K	5%	1/10W
R950	1-216-821-11	METAL CHIP	1K	5%	1/10W
R951	1-216-849-11	METAL CHIP	220K	5%	1/10W
R952	1-216-841-11	METAL CHIP	47K	5%	1/10W
R953	1-216-845-11	METAL CHIP	100K	5%	1/10W
R954	1-216-837-11	METAL CHIP	22K	5%	1/10W
R955	1-216-849-11	METAL CHIP	220K	5%	1/10W
R957	1-216-841-11	METAL CHIP	47K	5%	1/10W
R959	1-216-841-11	METAL CHIP	47K	5%	1/10W
R960	1-215-902-11	METAL OXIDE	47K	5%	2W
R961	1-216-821-11	METAL CHIP	1K	5%	1/10W
R967	1-216-210-00	METAL CHIP	3.3K	5%	1/4W
R968	1-216-190-00	METAL CHIP	470	5%	1/4W
R969	1-216-206-00	METAL CHIP	2.2K	5%	1/4W
R970	1-216-198-91	METAL CHIP	1K	5%	1/4W
R971	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R972	1-216-841-11	METAL CHIP	47K	5%	1/10W
R973	1-216-839-11	METAL CHIP	33K	5%	1/10W
R974	1-216-837-11	METAL CHIP	22K	5%	1/10W
R975	1-216-821-11	METAL CHIP	1K	5%	1/10W
R976	1-216-820-11	METAL CHIP	820	5%	1/10W
R978	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R979	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R980	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R981	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W
R982	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R983	1-218-869-11	METAL CHIP	8.2K	0.5%	1/10W
R984	1-216-198-91	METAL CHIP	1K	5%	1/4W
R985	1-216-809-11	METAL CHIP	100	5%	1/10W
R986	1-216-833-11	METAL CHIP	10K	5%	1/10W
R987	1-216-833-11	METAL CHIP	10K	5%	1/10W
R988	1-216-833-11	METAL CHIP	10K	5%	1/10W
R989	1-216-833-11	METAL CHIP	10K	5%	1/10W
R990	1-216-797-11	METAL CHIP	10	5%	1/10W
R991	1-216-864-11	SHORT CHIP	0		
R993	1-216-809-11	METAL CHIP	100	5%	1/10W
R994	1-216-864-11	SHORT CHIP	0		
R996	1-216-864-11	SHORT CHIP	0		
R997	1-216-864-11	SHORT CHIP	0		
R998	1-215-902-11	METAL OXIDE	47K	5%	2W
R999	1-216-295-91	SHORT CHIP	0		
R1000	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1001	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1002	1-216-843-11	METAL CHIP	68K	5%	1/10W
R1004	1-216-864-11	SHORT CHIP	0		
R1014	1-216-222-00	METAL CHIP	10K	5%	1/4W
R1015	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1016	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1017	1-216-234-00	METAL CHIP	33K	5%	1/4W
R1018	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1020	1-216-174-00	METAL CHIP	100	5%	1/4W
R1022	1-216-258-00	METAL CHIP	330K	5%	1/4W
R1023	1-216-258-00	METAL CHIP	330K	5%	1/4W
R1024	1-216-258-00	METAL CHIP	330K	5%	1/4W
R1025	1-216-262-00	METAL CHIP	470K	5%	1/4W
R1026	1-216-222-00	METAL CHIP	10K	5%	1/4W
R1027	1-216-234-00	METAL CHIP	33K	5%	1/4W
R1029	1-216-234-00	METAL CHIP	33K	5%	1/4W
		< TRANSFORMER >			
⚠ T900	1-697-341-11	CONVERTER TRANSFORMER			
		< THERMISTOR >			
⚠ TH900	1-811-615-21	THERMISTOR, POWER			
⚠ TH901	1-811-890-11	THERMISTOR, POSITIVE			
⚠ TH902	1-811-615-21	THERMISTOR, POWER			
		< VARISTOR >			
⚠ VDR900	1-811-165-31	VARISTOR (TVR10471-D)			
**********					
		SPK LEFT BOARD			
		**********			
		< CAPACITOR >			
C1370	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CN1370	1-844-016-11	PIN, CONNECTOR (SMD) 5P			
		< DIODE >			
D1370	6-503-944-01	DI SMLVN6RGB1U15QYA			
**********					

Note: When the R942, R943, R944, R945, R947, R948 and VDR900 on the SMPS board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

Ref. No.	Part No.	Description	Remark
		SPK RIGHT BOARD	
		**********	
		< CAPACITOR >	
C1380	1-118-347-11	CERAMIC CHIP 0.1uF 10% 25V	
		< CONNECTOR >	
CN1380	1-844-026-11	PIN, CONNECTOR (SMD) 4P	
		< DIODE >	
D1380	6-503-944-01	DI SMLVN6RGB1U15QYA	
		USB BOARD	
		**********	
		< CAPACITOR >	
C1300	1-165-989-91	CERAMIC CHIP 10uF 10% 6.3V	
C1304	1-165-989-91	CERAMIC CHIP 10uF 10% 6.3V	
		< CONNECTOR >	
CN1300	1-819-866-11	USB CONNECTOR (A) (⇢ 5V ⎓ 1A)	
		< DIODE >	
D1300	6-502-970-01	DI DZ2J068M0L	
D1301	6-502-970-01	DI DZ2J068M0L	
D1303	6-500-514-01	DIODE BAV70	
D1304	6-502-970-01	DI DZ2J068M0L	
D1305	6-500-400-01	DIODE BAV99-215	
		< FERRITE BEAD >	
FB1300	1-216-864-11	SHORT CHIP 0	
FB1301	1-216-864-11	SHORT CHIP 0	
		VOLUME BOARD	
		**********	
		< CAPACITOR >	
C1350	1-115-416-11	CERAMIC CHIP 0.001uF 5% 25V	
R1350	1-216-833-11	METAL CHIP 10K 5% 1/10W	
		< SWITCH >	
S1350	1-489-978-11	ENCODER, ROTARY (VOLUME/DJ CONTROL)	
		MISCELLANEOUS	
		**********	
56	1-457-413-21	CORE, FERRITE (US)	
57	1-481-636-21	CORE, FERRITE (US)	
⚠ 58	1-855-006-61	DC FAN	
104	1-848-359-21	FLEXIBLE FLAT CABLE (17 CORE)	
105	1-848-361-21	FLEXIBLE FLAT CABLE (14 CORE)	
106	1-490-558-81	BLUETOOTH MODULE	
155	1-481-419-21	FERRITE CORE (US, E2, AR)	
⚠ 156	1-834-966-42	POWER-SUPPLY CORD (AEP, RU, E51)	
⚠ 156	1-835-068-21	CORD, POWER (AUS)	
⚠ 156	1-837-308-12	CORD, POWER-SUPPLY (US)	
⚠ 156	1-837-312-11	CORD, POWER-SUPPLY (AR)	
⚠ 156	1-837-344-11	CORD, POWER-SUPPLY (E2, MX)	
⚠ 156	1-839-999-21	POWER-SUPPLY CORD (UK, MY)	
⚠ 157	1-569-007-31	ADAPTOR, CONVERSION 2P (E2)	
253	A-1979-416-C	SS-GTKX1BT-ASSY (EXCEPT US)	
253	A-2037-245-C	SS-GTKX1BT-ASSY (U2) (US)	
304	1-400-932-21	FILTER, CLAMP (US, E2, AR)	
305	8-989-470-05	RC-S801/A5 (WW)	
306	1-848-360-21	FLEXIBLE FLAT CABLE (8 CORE)	
311	1-858-752-21	LOUDSPEAKER (6.6CM)	
		ACCESSORIES	
		**********	
	A-1920-726-A	RM-AMU166//C(A)	
	1-754-060-21	ANTENNA (FM) (EXCEPT US) (AM loop antenna (aerial))	
	1-793-184-41	CONNECTOR (F TYPE ADAPTOR) (US)	
	4-485-790-13	MANUAL, INSTRUCTION (ENGLISH) (US, UK, E2, E51, MY, AUS)	
	4-485-790-23	MANUAL, INSTRUCTION (SPANISH) (US, AEP, E2, E51)	
	4-485-790-33	MANUAL, INSTRUCTION (FRENCH) (AEP)	
	4-485-790-41	MANUAL, INSTRUCTION (SPANISH) (AR)	
	4-485-790-53	MANUAL, INSTRUCTION (TRADITIONAL CHINESE, MALAY) (MY)	
	4-485-790-63	MANUAL, INSTRUCTION (GERMAN, DUTCH, ITALIAN, POLISH) (AEP)	
	4-485-790-71	MANUAL, INSTRUCTION (RUSSIAN, UKRAINIAN) (RU)	
	4-485-790-81	MANUAL, INSTRUCTION (SPANISH) (MX)	

Note: If flexible flat cable is replaced, install it after bending it in the same form as that before replacement.

MEMO

GTK-X1BT

SONY

SERVICE MANUAL

Ver. 1.4 2016.01

US Model
AEP Model
UK Model
Russian Model
E Model
Argentina Model
Australian Model
Malaysia Model
Mexican Model

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Change of MAIN board (Suffix-14)
Change of connector for MAIN board (CN301).

In this set, MAIN board has been changed in the midway of production. Moreover, connector for MAIN board has been changed at the same time as changing MAIN board.
This service manual supplement-1 describes only the printed wiring board, schematic diagram and electrical part list for MAIN board (Suffix-14).
Refer to original service manual for other information.

TABLE OF CONTENTS

1. DISCRIMINATION 2

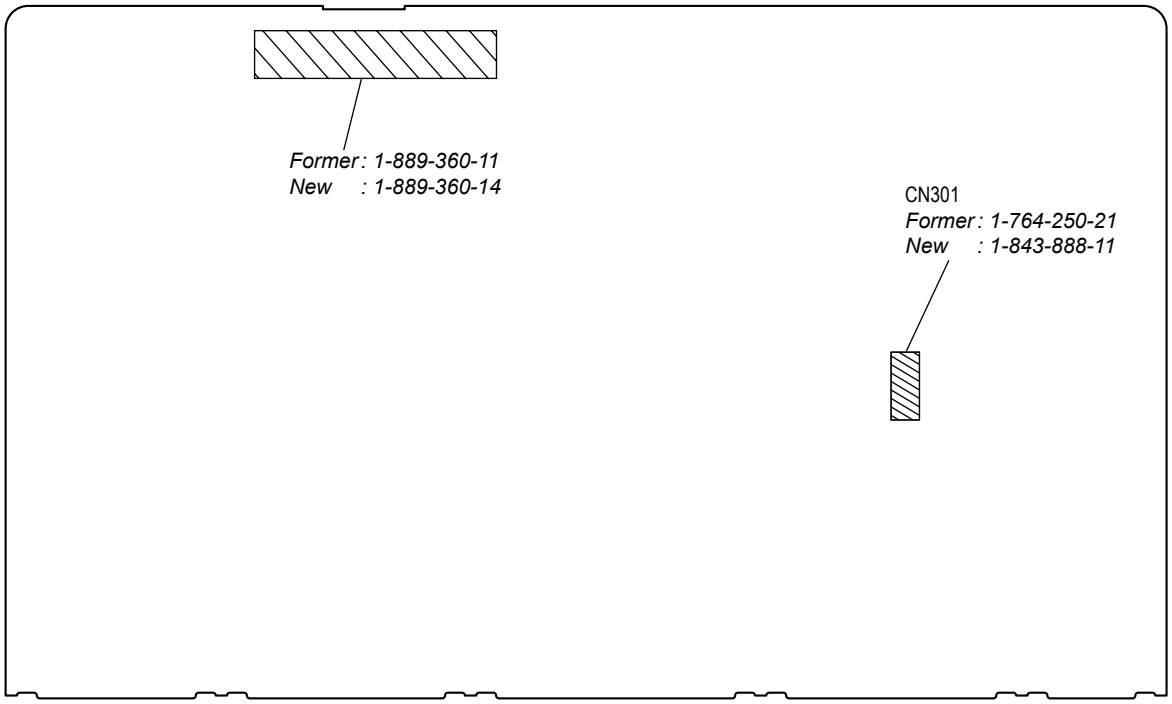
2. DIAGRAMS
2-1. Printed Wiring Board - MAIN Board (Component Side) - 4
2-2. Printed Wiring Board - MAIN Board (Conductor Side) - 5
2-3. Schematic Diagram - MAIN Board (1/6) - 6
2-4. Schematic Diagram - MAIN Board (2/6) - 7
2-5. Schematic Diagram - MAIN Board (3/6) - 8
2-6. Schematic Diagram - MAIN Board (4/6) - 9
2-7. Schematic Diagram - MAIN Board (5/6) - 10
2-8. Schematic Diagram - MAIN Board (6/6) - 11

3. ELECTRICAL PARTS LIST 13

9-890-644-81

SECTION 1
DISCRIMINATION

– MAIN Board – (Component side)



SECTION 2
DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Printed Wiring Boards.

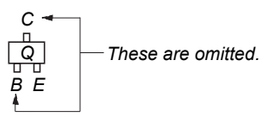
Note:

- ○——: Parts extracted from the component side.
- ——: Parts extracted from the conductor side.
- △ : Internal component.
- ▬ : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:

Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.



- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E2 : 120 V AC area in E model
  E12 : 220 – 240 V AC area in E model
  E51 : Chilean, Peruvian and PX models
  MX : Mexican model
  MY : Malaysia model
  RU : Russian model

Note 1: When the MAIN board is replaced, spread the compound referring to "NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD" on servicing notes (page 4).

Note 2: When the MAIN board is replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

For Schematic Diagrams.

Note:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : Internal component.
- : Nonflammable resistor.
- : Fusible resistor.
- : Panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark: TUNER
  ( ): iPod/iPhone
  < >: DVD/PC IN
  * : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER
  : iPod/iPhone
  : USB
  : DVD/PC IN
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E2 : 120 V AC area in E model
  E12 : 220 – 240 V AC area in E model
  E51 : Chilean, Peruvian and PX models
  MX : Mexican model
  MY : Malaysia model
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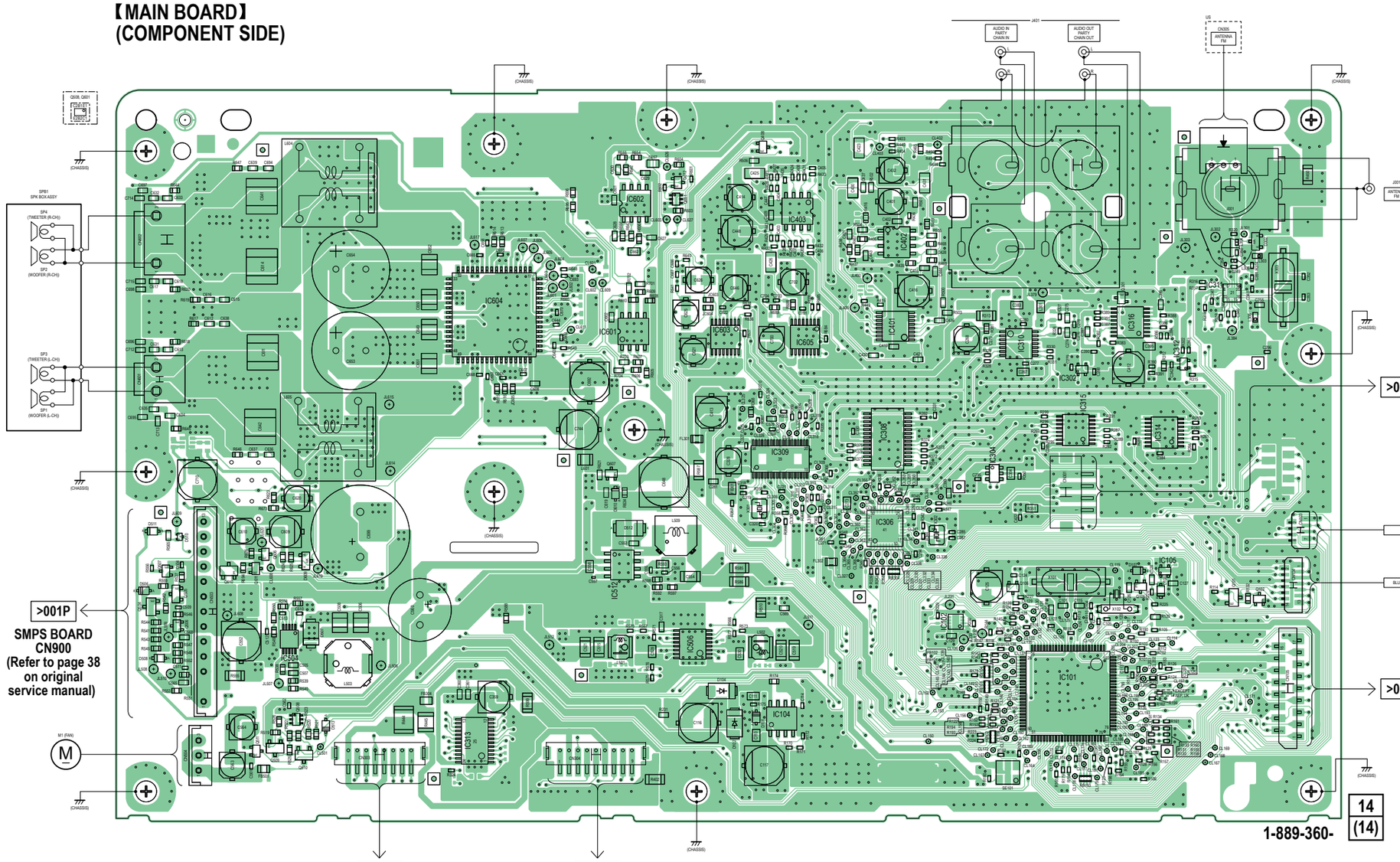
Note 1: When the MAIN board is replaced, spread the compound referring to "NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD" on servicing notes (page 4).

Note 2: When the MAIN board is replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

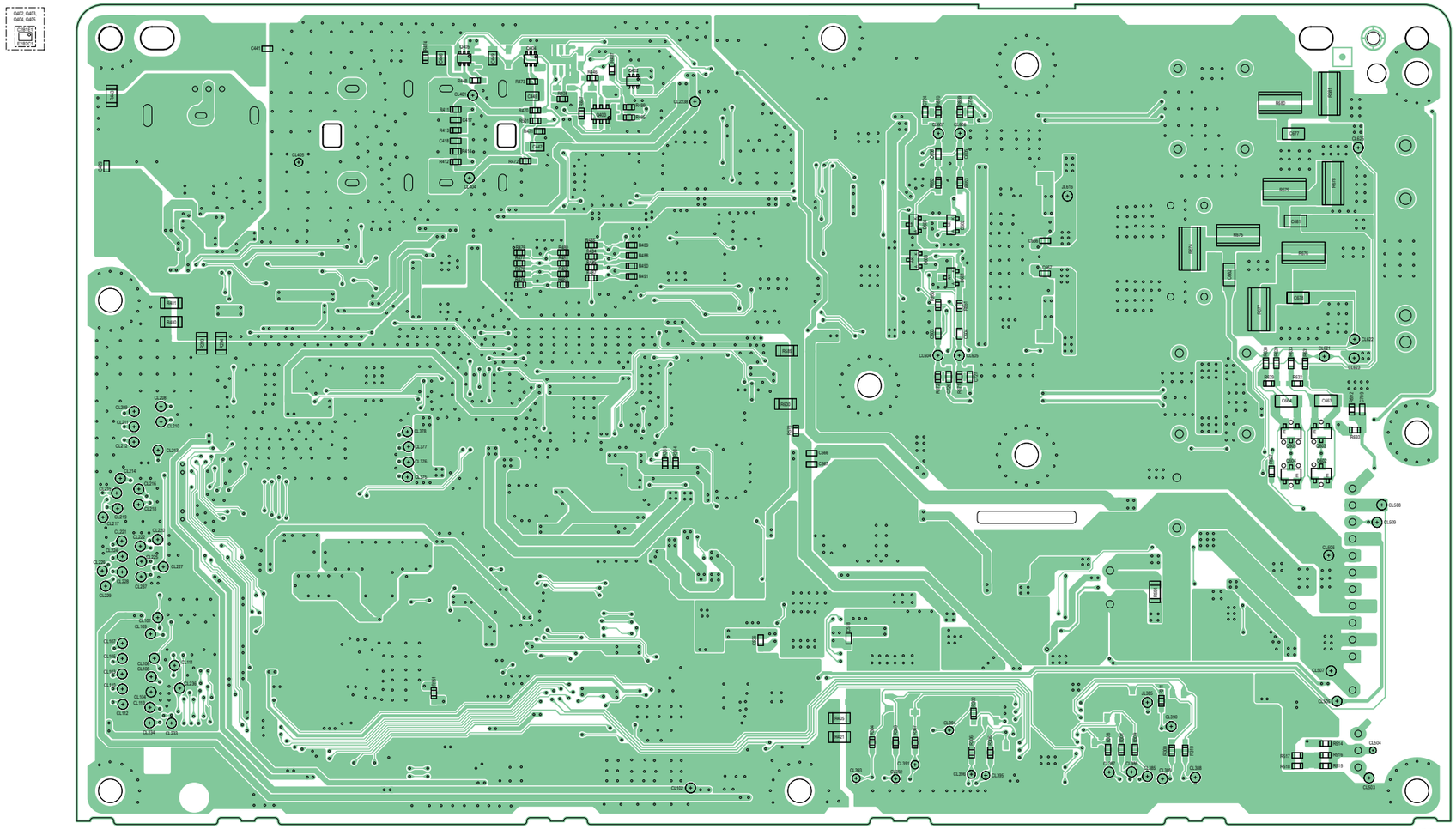
2.1. PRINTED WIRING BOARD - MAIN Board (Component Side) - • : Uses unleaded solder.

【MAIN BOARD】
(COMPONENT SIDE)



2-2. PRINTED WIRING BOARD - MAIN Board (Conductor Side) - • : Uses unleaded solder.

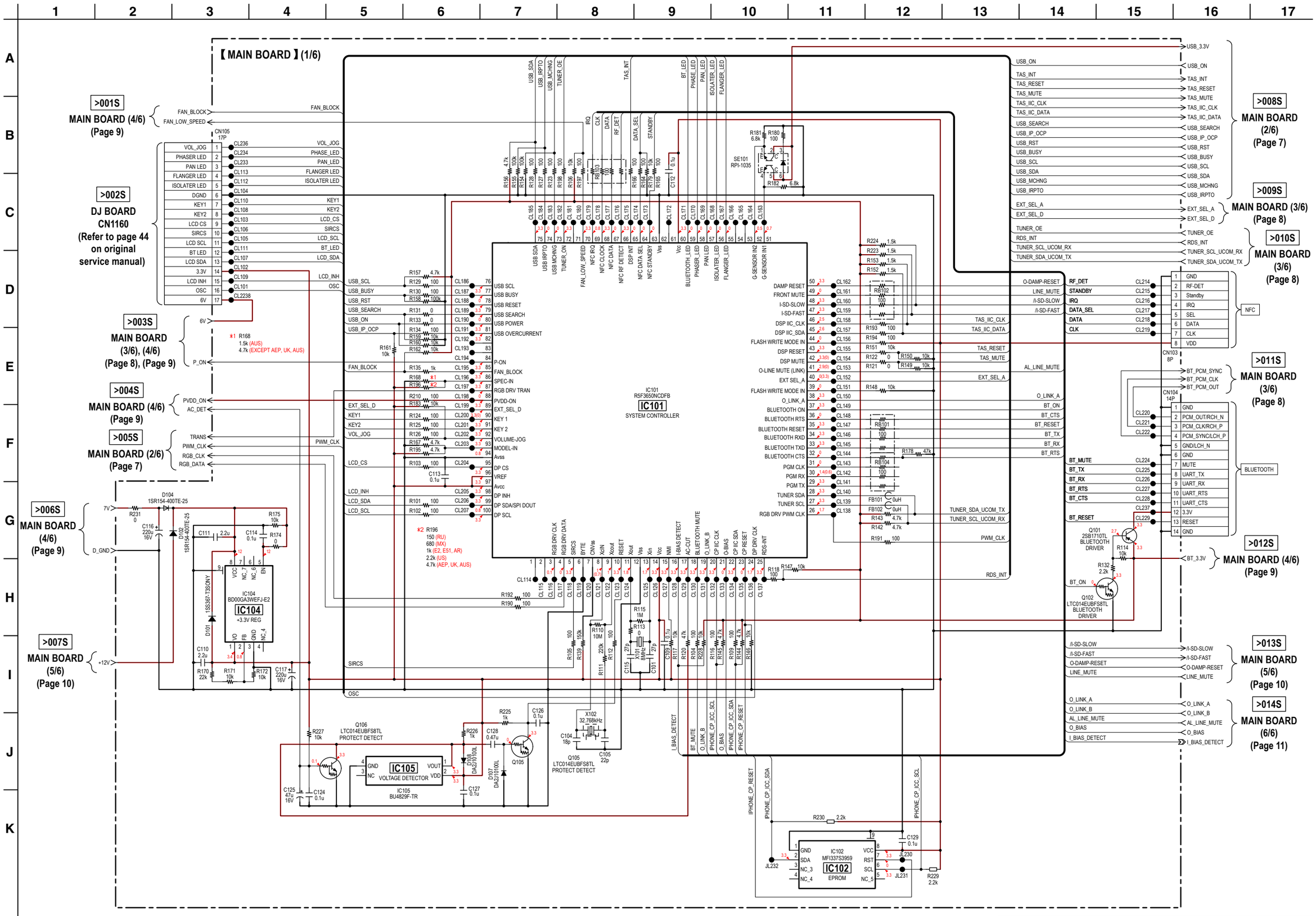
【MAIN BOARD】
(CONDUCTOR SIDE)



1-889-360-

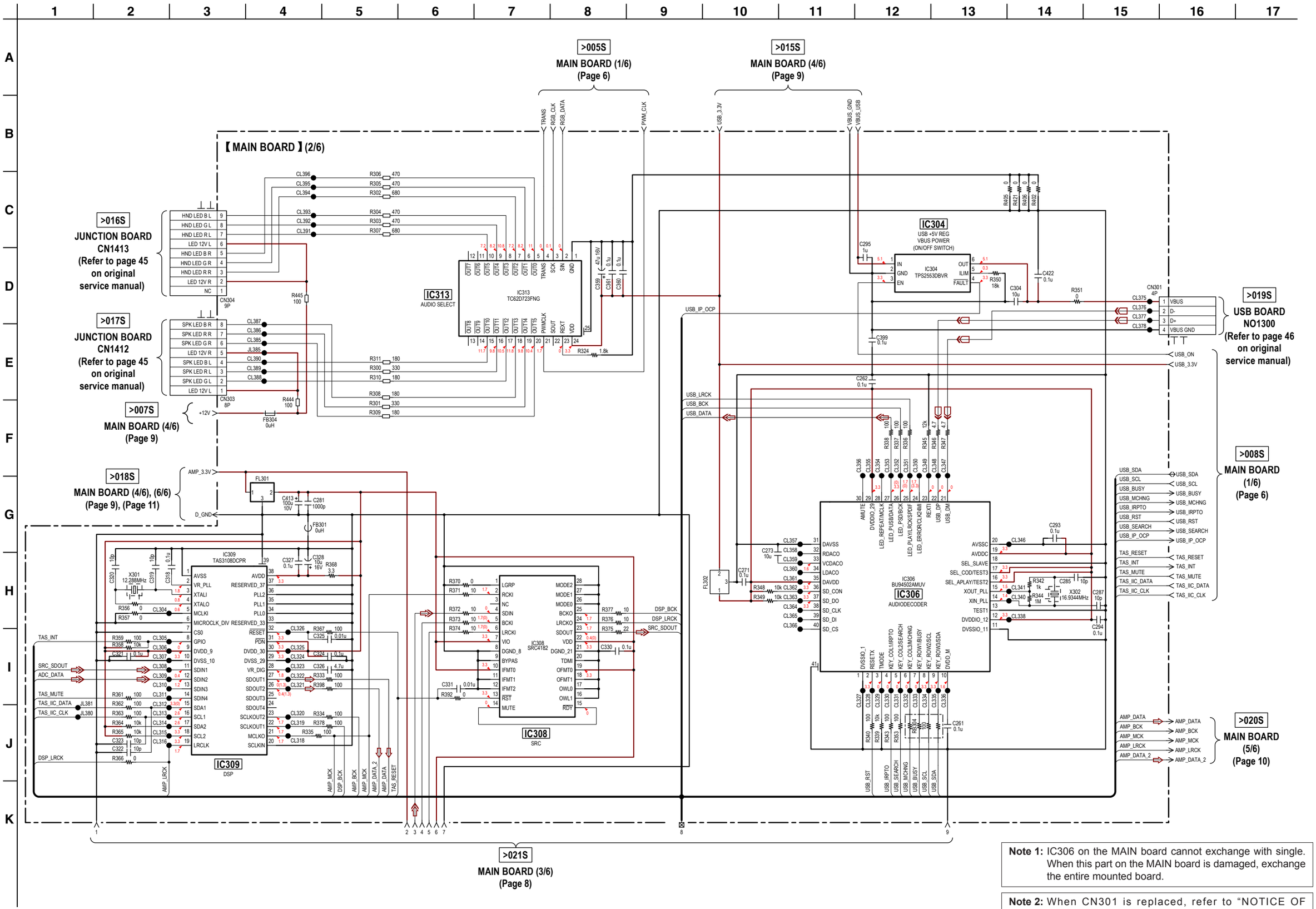
14
(14)

2-3. SCHEMATIC DIAGRAM - MAIN Board (1/6) -



Note: IC102 on the MAIN board cannot exchange with single. When this part on the MAIN board is damaged, exchange the entire mounted board.

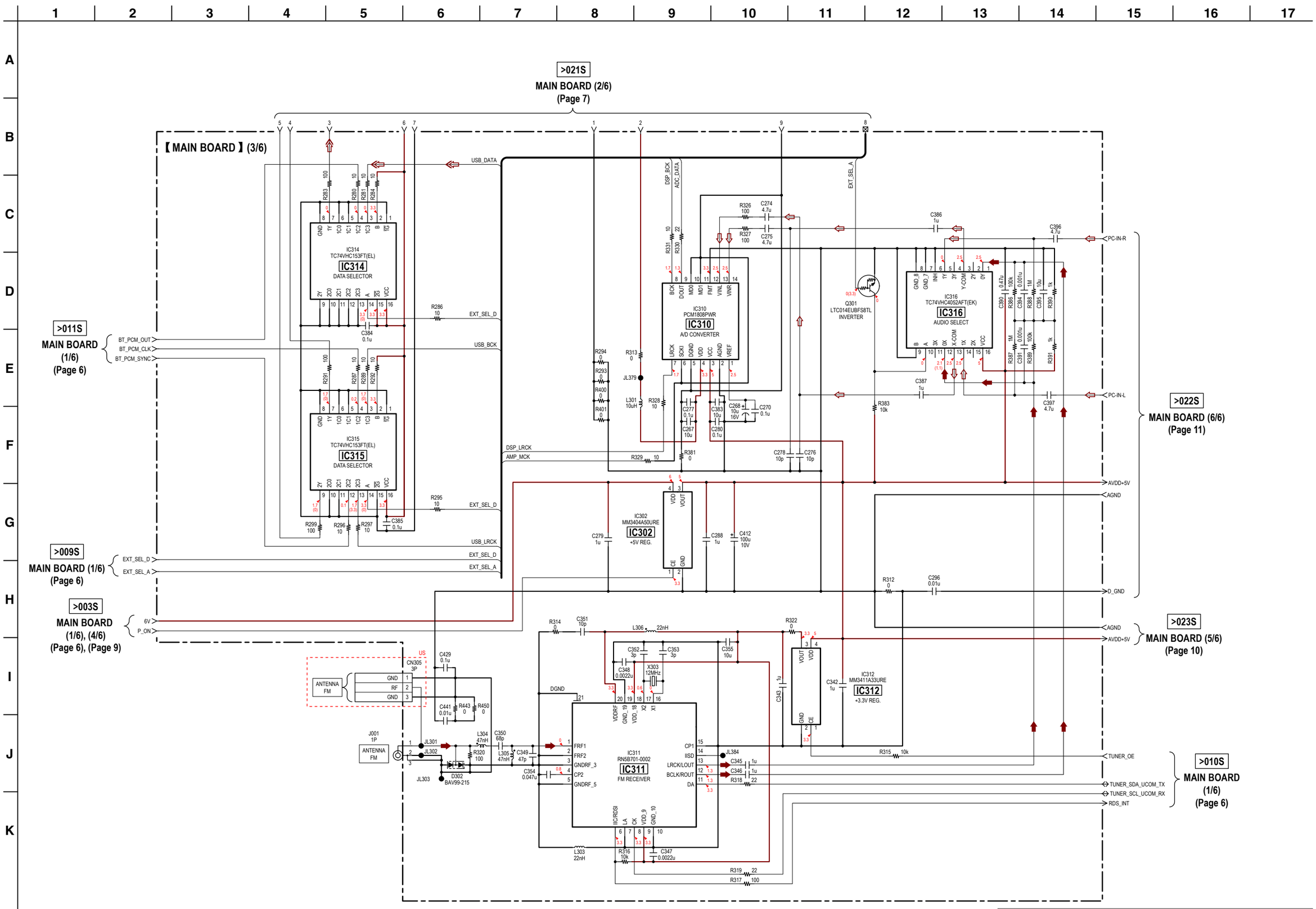
2-4. SCHEMATIC DIAGRAM - MAIN Board (2/6) -



Note 1: IC306 on the MAIN board cannot exchange with single. When this part on the MAIN board is damaged, exchange the entire mounted board.

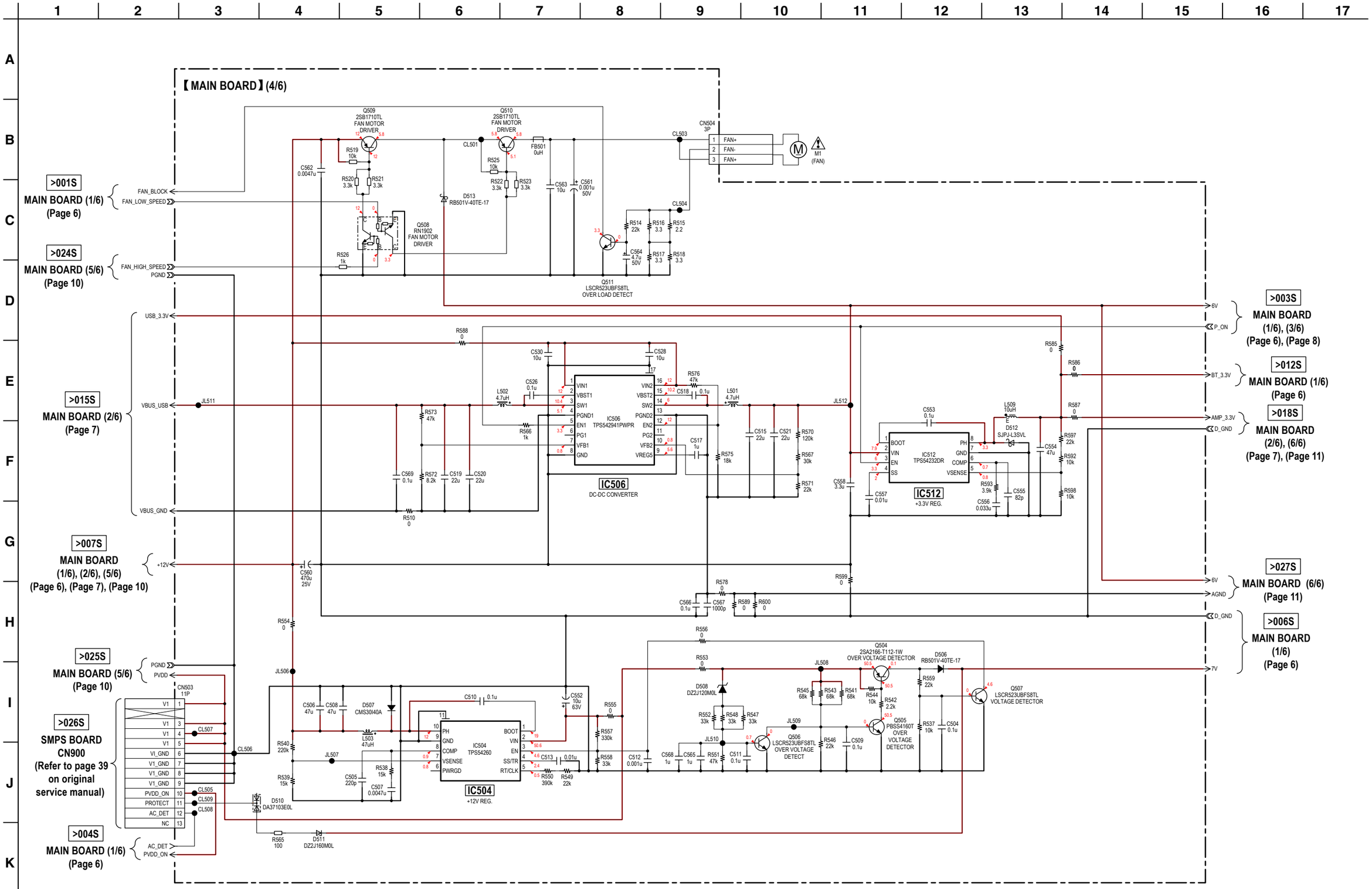
Note 2: When CN301 is replaced, refer to “NOTICE OF CONNECTOR CHECK” (page 4).

2-5. SCHEMATIC DIAGRAM - MAIN Board (3/6) -



Note: IC311 on the MAIN board cannot exchange with single. When this part on the MAIN board is damaged, exchange the entire mounted board.

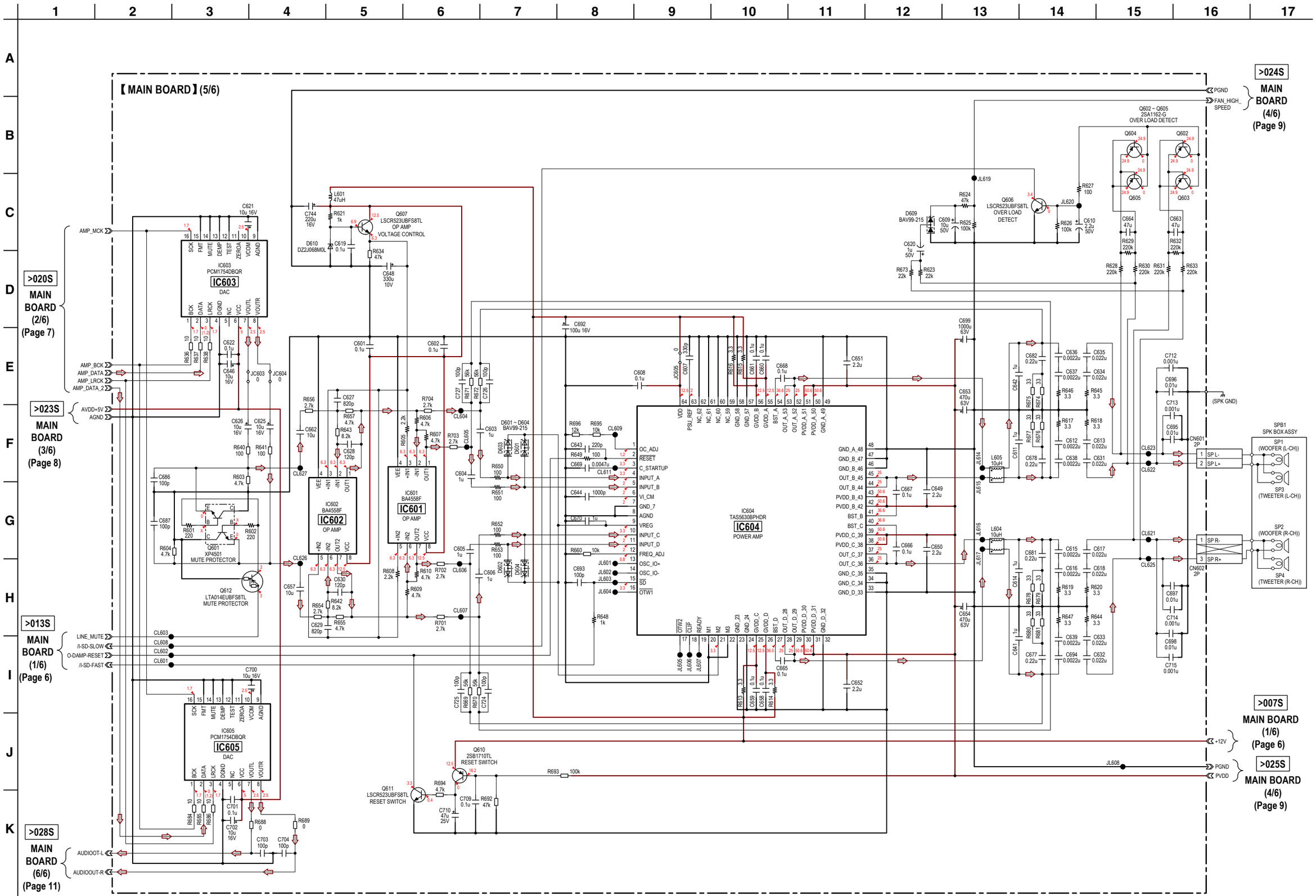
2-6. SCHEMATIC DIAGRAM - MAIN Board (4/6) -



Note 1: When the C560 on the MAIN board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

Note 2: IC506 on the MAIN board cannot exchange with single. When this part on the MAIN board is damaged, exchange the entire mounted board.

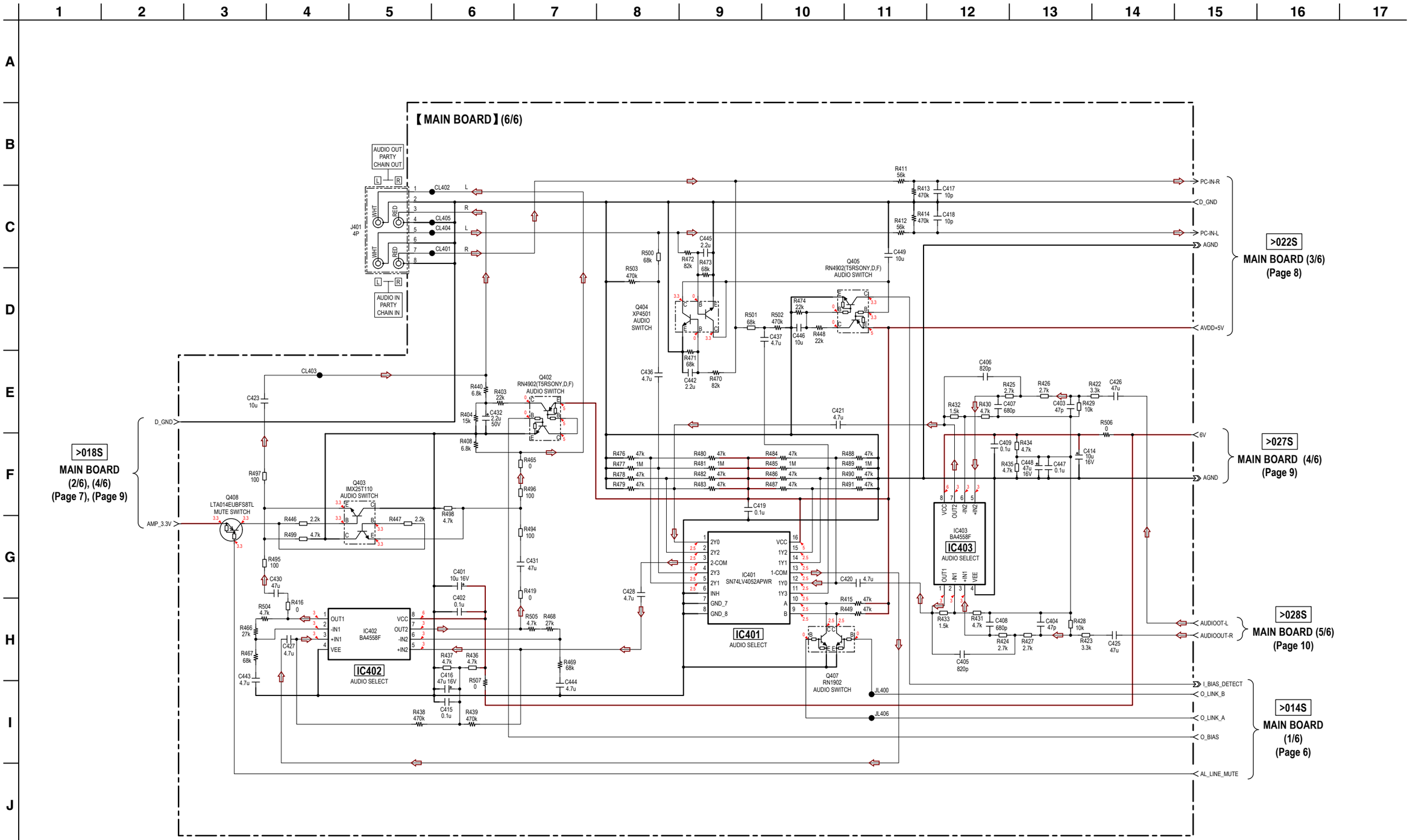
2-7. SCHEMATIC DIAGRAM - MAIN Board (5/6) -



Note 1: When the IC604 on the MAIN board is replaced, spread the compound referring to "NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD" on servicing notes (page 4).

Note 2: When the C653, C654 and C699 on the MAIN board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

2-8. SCHEMATIC DIAGRAM - MAIN Board (6/6) -



MEMO

SECTION 3
ELECTRICAL PARTS LIST

MAIN

Note:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . , uPA. . , µPA. . ,
  uPB. . : µPB. . , uPC. . , µPC. . ,
  uPD. . : µPD. .
- Abbreviation
  AR : Argentina model
  AUS : Australian model
  E2 : 120 V AC area in E model
  E12 : 220 – 240 V AC area in E model
  E51 : Chilean, Peruvian and PX models
  MX : Mexican model
  MY : Malaysia model
  RU : Russian model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

	Ref. No.	Part No.	Description			Remark
		A-1979-288-A	MAIN BOARD, COMPLETE (E51)			
		A-1979-300-A	MAIN BOARD, COMPLETE (AEP, UK)			
		A-2011-871-A	MAIN BOARD, COMPLETE (E2)			
		A-2011-877-A	MAIN BOARD, COMPLETE (US)			
		A-2011-880-A	MAIN BOARD, COMPLETE (MX)			
		A-2015-133-A	MAIN BOARD, COMPLETE (AR)			
		A-2015-136-A	MAIN BOARD, COMPLETE (AUS)			
		A-2015-223-A	MAIN BOARD, COMPLETE (MY)			
		A-2015-229-A	MAIN BOARD, COMPLETE (RU)			
			**********			
		7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S			
			< CAPACITOR >			
	C101	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
	C104	1-164-856-81	CERAMIC CHIP	18PF	5%	50V
	C105	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
*	C109	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
*	C110	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
*	C111	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
	C112	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C113	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C114	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C115	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
	C116	1-112-792-11	ELECT CHIP	220uF	20%	16V
	C117	1-112-792-11	ELECT CHIP	220uF	20%	16V
	C124	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C125	1-137-765-21	ELECT CHIP	47uF	20%	16V
	C126	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C127	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C128	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
	C129	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C261	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C262	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C267	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
	C268	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C270	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C271	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C273	1-165-989-91	CERAMIC CHIP	10uF	10%	6.3V
	C274	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C275	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C276	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C277	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C278	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C279	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C280	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C281	1-118-354-11	CERAMIC CHIP	1000PF	5%	100V
	C285	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C287	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C288	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C293	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C294	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C295	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C296	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C304	1-165-989-91	CERAMIC CHIP	10uF	10%	6.3V
	C318	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C319	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C320	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C321	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C322	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C323	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C324	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C325	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C326	1-116-724-11	CERAMIC CHIP	4.7uF	20%	6.3V
	C327	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C328	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C330	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C331	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
*	C342	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C343	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C345	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
*	C346	1-116-738-11	CERAMIC CHIP	1uF	10%	6.3V
	C347	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C348	1-118-399-11	CERAMIC CHIP	0.0022uF	10%	50V
	C349	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C350	1-164-870-11	CERAMIC CHIP	68PF	5%	50V
	C351	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
	C352	1-164-843-11	CERAMIC CHIP	3PF	0.25PF	50V
	C353	1-164-843-11	CERAMIC CHIP	3PF	0.25PF	50V
*	C354	1-118-033-11	CERAMIC CHIP	0.047uF	10%	10V
*	C355	1-116-720-11	CERAMIC CHIP	10uF	20%	6.3V
	C359	1-137-765-21	ELECT CHIP	47uF	20%	16V
	C360	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C361	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C383	1-116-717-11	CERAMIC CHIP	10uF	20%	10V
	C384	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C385	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C386	1-116-737-11	CERAMIC CHIP	1uF	20%	10V

Note 1: When the MAIN board is replaced, spread the compound referring to "NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD" on servicing notes (page 4).

Note 2: When the MAIN board is replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

GTK-X1BT

MAIN

	Ref. No.	Part No.	Description			Remark
	C387	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
	C390	1-116-741-11	CERAMIC CHIP	0.47uF	20%	10V
	C391	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C394	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C395	1-165-989-91	CERAMIC CHIP	10uF	10%	6.3V
	C396	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C397	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C399	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C401	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C402	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C403	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C404	1-164-866-11	CERAMIC CHIP	47PF	5%	50V
	C405	1-117-949-81	CERAMIC CHIP	820PF	10%	50V
	C406	1-117-949-81	CERAMIC CHIP	820PF	10%	50V
	C407	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
	C408	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
	C409	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C412	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C413	1-165-492-21	ELECT CHIP	100uF	20%	10V
	C414	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C415	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C416	1-137-765-21	ELECT CHIP	47uF	20%	16V
	C417	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C418	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
	C419	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C420	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C421	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C422	1-125-777-11	CERAMIC CHIP	0.1uF	10%	10V
	C423	1-116-865-11	CERAMIC CHIP	10uF	10%	25V
	C425	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C426	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C427	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C428	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C429	1-118-289-11	CERAMIC CHIP	0.1uF	10%	16V
	C430	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C431	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C432	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
	C436	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C437	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C441	1-118-345-11	CERAMIC CHIP	0.01uF	10%	25V
*	C442	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
	C443	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
	C444	1-118-041-11	CERAMIC CHIP	4.7uF	10%	10V
*	C445	1-116-727-11	CERAMIC CHIP	2.2uF	10%	16V
	C446	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C447	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C448	1-137-765-21	ELECT CHIP	47uF	20%	16V
	C449	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C504	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C505	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
	C506	1-116-705-11	CERAMIC CHIP	47uF	20%	16V
	C507	1-162-968-91	CERAMIC CHIP	0.0047uF	10%	50V
	C508	1-116-705-11	CERAMIC CHIP	47uF	20%	16V
	C509	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C510	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C511	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C512	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C513	1-118-391-11	CERAMIC CHIP	0.01uF	10%	50V
	C515	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C517	1-116-734-11	CERAMIC CHIP	1uF	20%	16V

	Ref. No.	Part No.	Description			Remark
	C518	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C519	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C520	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C521	1-116-712-11	CERAMIC CHIP	22uF	10%	10V
	C526	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C528	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C530	1-116-716-11	CERAMIC CHIP	10uF	10%	16V
	C552	1-118-614-11	ELECT CHIP	10uF	20%	63V
*	C553	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
	C554	1-116-707-11	CERAMIC CHIP	47uF	20%	10V
	C555	1-116-155-11	CERAMIC CHIP	82PF	1%	50V
	C556	1-127-772-81	CERAMIC CHIP	0.033uF	10%	10V
	C558	1-114-736-11	CERAMIC CHIP	3.3uF	10%	10V
	C560	1-126-941-11	ELECT	470uF	20%	25V
	C561	1-118-403-11	CERAMIC CHIP	0.001uF	10%	50V
	C562	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V
	C563	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C564	1-128-996-11	ELECT CHIP	4.7uF	20%	50V
*	C565	1-116-735-11	CERAMIC CHIP	1uF	10%	16V
	C566	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C567	1-118-354-11	CERAMIC CHIP	1000PF	5%	100V
*	C568	1-116-735-11	CERAMIC CHIP	1uF	10%	16V
	C569	1-118-361-11	CERAMIC CHIP	0.1uF	10%	50V
	C601	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C602	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
	C603	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C604	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C605	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C606	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
	C607	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
	C608	1-118-289-11	CERAMIC CHIP	0.1uF	10%	16V
	C609	1-128-991-21	ELECT CHIP	10uF	20%	50V
	C610	1-126-601-11	ELECT CHIP	2.2uF	20%	50V
	C611	1-116-911-21	CERAMIC CHIP	1uF	10%	250V
	C612	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C613	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C614	1-116-911-21	CERAMIC CHIP	1uF	10%	250V
	C615	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C616	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C617	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C618	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C619	1-118-289-11	CERAMIC CHIP	0.1uF	10%	16V
	C620	1-126-193-11	ELECT CHIP	1uF	20%	50V
	C621	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C622	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
	C625	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C626	1-124-779-00	ELECT CHIP	10uF	20%	16V
	C627	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
	C628	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
	C629	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
	C630	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
	C631	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C632	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C633	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C634	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C635	1-118-369-11	CERAMIC CHIP	0.022uF	10%	50V
	C636	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C637	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C638	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
	C639	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V

Note: When the C560 on the MAIN board is replaced, spread the bond referring to “BOND FIXATION OF ELECTRIC PARTS” on servicing notes (page 6).

Ref. No.	Part No.	Description			Remark
C641	1-116-911-21	CERAMIC CHIP	1uF	10%	250V
C642	1-116-911-21	CERAMIC CHIP	1uF	10%	250V
C643	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C644	1-112-692-11	CERAMIC CHIP	1000PF	5%	50V
C646	1-124-779-00	ELECT CHIP	10uF	20%	16V
C648	1-116-108-11	ELECT CHIP	330uF	20%	10V
C649	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V
C650	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V
C651	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V
C652	1-116-782-91	CERAMIC CHIP	2.2uF	10%	100V
C653	1-128-555-91	ELECT	470uF	20%	63V
C654	1-128-555-91	ELECT	470uF	20%	63V
C657	1-118-047-11	CERAMIC CHIP	10uF	10%	16V
C658	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C659	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C660	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C661	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C662	1-118-047-11	CERAMIC CHIP	10uF	10%	16V
C663	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
C664	1-116-708-11	CERAMIC CHIP	47uF	20%	6.3V
* C665	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
* C666	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
* C667	1-118-360-11	CERAMIC CHIP	0.1uF	10%	25V
* C668	1-118-035-11	CERAMIC CHIP	0.1uF	10%	25V
C669	1-118-395-11	CERAMIC CHIP	0.0047uF	10%	50V
C670	1-116-737-11	CERAMIC CHIP	1uF	20%	10V
C677	1-118-118-91	CERAMIC CHIP	0.22uF	10%	100V
C678	1-118-118-91	CERAMIC CHIP	0.22uF	10%	100V
C681	1-118-118-91	CERAMIC CHIP	0.22uF	10%	100V
C682	1-118-118-91	CERAMIC CHIP	0.22uF	10%	100V
C686	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C687	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C692	1-117-681-11	ELECT CHIP	100uF	20%	16V
C693	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C694	1-162-966-91	CERAMIC CHIP	0.0022uF	10%	50V
C695	1-116-405-11	CERAMIC CHIP	0.01uF	10%	100V
C696	1-116-405-11	CERAMIC CHIP	0.01uF	10%	100V
C697	1-116-405-11	CERAMIC CHIP	0.01uF	10%	100V
C698	1-116-405-11	CERAMIC CHIP	0.01uF	10%	100V
C699	1-112-107-11	ELECT	1000uF	20%	63V
C700	1-124-779-00	ELECT CHIP	10uF	20%	16V
C701	1-118-386-11	CERAMIC CHIP	0.1uF	10%	16V
C702	1-124-779-00	ELECT CHIP	10uF	20%	16V
C703	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C704	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C709	1-118-347-11	CERAMIC CHIP	0.1uF	10%	25V
C710	1-128-992-21	ELECT CHIP	47uF	20%	25V
C712	1-116-902-21	CERAMIC CHIP	0.001uF	10%	250V
C713	1-116-902-21	CERAMIC CHIP	0.001uF	10%	250V
C714	1-116-902-21	CERAMIC CHIP	0.001uF	10%	250V
C715	1-116-902-21	CERAMIC CHIP	0.001uF	10%	250V
C724	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C725	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C726	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C727	1-100-152-91	CERAMIC CHIP	100PF	5%	100V
C744	1-100-767-21	ELECT CHIP	220uF	20%	16V
		< CONNECTOR >			
CN103	1-820-384-31	CONNECTOR, FFC/FPC (LIF) 8P			
CN104	1-815-762-31	CONNECTOR, FFC/FPC (LIF) 14P (BLUETOOTH)			

Ref. No.	Part No.	Description	Remark
CN105	1-820-116-41	CONNECTOR, FFC/FPC 17P	
CN301	1-843-888-11	PIN, CONNECTOR (PC BOARD) 4P	
CN303	1-844-025-11	PIN, CONNECTOR (SMD) 8P	
CN304	1-844-024-11	PIN, CONNECTOR (SMD) 9P	
CN305	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P (US)	
CN503	1-691-773-11	PLUG (MICRO CONNECTOR) 11P	
CN504	1-819-131-11	PIN, CONNECTOR 3P	
CN601	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
CN602	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
		< DIODE >	
D101	8-719-049-09	DIODE 1SS367-T3SONY	
D102	8-719-053-18	DIODE 1SR154-400TE-25	
D104	8-719-053-18	DIODE 1SR154-400TE-25	
D107	6-502-961-01	DI DA2J10100L	
D108	6-502-961-01	DI DA2J10100L	
D302	6-500-400-01	DIODE BAV99-215	
D506	8-719-058-24	DIODE RB501V-40TE-17	
D507	6-504-096-01	DI CMS30I40A	
D508	6-503-026-01	DI DZ2J120M0L	
D510	6-503-314-01	DI DA37103E0L	
D511	6-503-030-01	DI DZ2J160M0L	
D512	6-503-705-01	DI SJPJ-L3SVL	
D513	8-719-058-24	DIODE RB501V-40TE-17	
D601	6-500-400-01	DIODE BAV99-215	
D602	6-500-400-01	DIODE BAV99-215	
D603	6-500-400-01	DIODE BAV99-215	
D604	6-500-400-01	DIODE BAV99-215	
D609	6-500-400-01	DIODE BAV99-215	
D610	6-502-970-01	DI DZ2J068M0L	
		< FERRITE BEAD >	
FB101	1-400-331-11	FERRITE, EMI (SMD) (1005)	
FB102	1-400-331-11	FERRITE, EMI (SMD) (1005)	
FB301	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB304	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB501	1-469-670-21	FERRITE, EMI (SMD) (2012)	
		< FILTER >	
FL301	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
FL302	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
		< IC >	
IC101	A-2042-601-A	IC R5F3650NCDFB (for SERVICE)	
IC102	(Not supplied)	IC MFI337S3959	
IC104	6-716-462-01	IC BD00GA3WEFJ-E2	
IC105	6-718-378-01	IC BU4829F-TR	
IC302	6-715-344-01	IC MM3404A50URE	
IC304	6-715-164-01	IC TPS2553DBVR	
IC306	(Not supplied)	IC BU94502AMUV	
IC308	6-707-800-01	IC SRC4182	
IC309	6-716-697-01	IC TAS3108DCPR	
IC310	6-710-554-01	IC PCM1808PWR	
IC311	(Not supplied)	IC RN5B701-0002	
IC312	6-719-198-01	IC MM3411A33URE	
IC313	6-719-142-01	IC TC62D723FNG	
IC314	8-759-524-09	IC TC74VHC153FT (EL)	
IC315	8-759-524-09	IC TC74VHC153FT (EL)	
IC316	6-712-384-01	IC TC74VHC4052AFT (EK)	
IC401	8-759-596-39	IC SN74LV4052APWR	

Note 1: When the C653, C654 and C699 on the MAIN board are replaced, spread the bond referring to "BOND FIXATION OF ELECTRIC PARTS" on servicing notes (page 6).

Note 2: IC102, IC306 and IC311 on the MAIN board cannot exchange with single. When these parts on the MAIN board are damaged, exchange the entire mounted board.

GTK-X1BT

Ver. 1.4

MAIN

Ref. No.	Part No.	Description	Remark
IC402	8-759-909-71	IC BA4558F	
IC403	8-759-909-71	IC BA4558F	
IC504	6-720-441-01	IC TPS54260	
IC506	(Not supplied)	IC TPS542941PWPR	
IC512	6-718-380-01	IC TPS54232DR	
IC601	8-759-909-71	IC BA4558F	
IC602	8-759-909-71	IC BA4558F	
IC603	6-705-973-01	IC PCM1754DBQR	
IC604	6-716-817-01	IC TAS5630BPHDR	
IC605	6-705-973-01	IC PCM1754DBQR	
		< JACK >	
J001	1-842-375-11	CONNECTOR, FM ANTENNA (ANTENNA FM) (US)	
J001	1-843-951-11	FM ANTENNA JACK (ANTENNA FM) (EXCEPT US)	
J401	1-843-952-11	4P RCA JACK (AUDIO OUT PARTY CHAIN OUT L/R, AUDIO IN PARTY CHAIN IN L/R)	
		< JUMPER >	
JC603	1-216-864-11	SHORT CHIP 0	
JC604	1-216-864-11	SHORT CHIP 0	
JC605	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L301	1-481-524-11	INDUCTOR 10uH	
L303	1-481-336-21	INDUCTOR 22nH	
L304	1-414-851-21	INDUCTOR 47nH	
L305	1-414-851-21	INDUCTOR 47nH	
L306	1-481-336-21	INDUCTOR 22nH	
L501	1-460-359-11	INDUCTOR 4.7uH	
L502	1-460-359-11	INDUCTOR 4.7uH	
L503	1-460-646-11	INDUCTOR 47uH	
L509	1-460-503-11	INDUCTOR 10uH	
L601	1-400-793-21	INDUCTOR 47uH	
L604	1-482-158-11	INDUCTOR 10uH	
L605	1-482-158-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	6-551-728-01	TRANSISTOR 2SB1710TL	
Q102	6-552-936-01	TR LTC014EUBFS8TL	
Q105	6-552-936-01	TR LTC014EUBFS8TL	
Q106	6-552-936-01	TR LTC014EUBFS8TL	
Q301	6-552-936-01	TR LTC014EUBFS8TL	
Q402	6-551-039-01	TRANSISTOR RN4902 (T5RSONY, D, F)	
* Q403	6-551-959-01	TR IMX25T110	
Q404	8-729-427-72	TRANSISTOR XP4501	
Q405	6-551-039-01	TRANSISTOR RN4902 (T5RSONY, D, F)	
Q407	6-550-978-01	TR RN1902	
Q408	6-552-922-01	TR LTA014EUBFS8TL	
Q504	6-552-137-01	TR 2SA2166-T112-1W	
Q505	6-553-083-01	TR PBSS4160T	
Q506	6-552-892-01	TR LSCR523UBFS8TL	
Q507	6-552-892-01	TR LSCR523UBFS8TL	
Q508	6-550-978-01	TR RN1902	
Q509	6-551-728-01	TRANSISTOR 2SB1710TL	
Q510	6-551-728-01	TRANSISTOR 2SB1710TL	
Q511	6-552-892-01	TR LSCR523UBFS8TL	
Q601	8-729-427-72	TRANSISTOR XP4501	
Q602	8-729-216-22	TRANSISTOR 2SA1162-G	
Q603	8-729-216-22	TRANSISTOR 2SA1162-G	
Q604	8-729-216-22	TRANSISTOR 2SA1162-G	
Q605	8-729-216-22	TRANSISTOR 2SA1162-G	
Q606	6-552-892-01	TR LSCR523UBFS8TL	
Q607	6-552-892-01	TR LSCR523UBFS8TL	
Q610	6-551-728-01	TRANSISTOR 2SB1710TL	
Q611	6-552-892-01	TR LSCR523UBFS8TL	
Q612	6-552-922-01	TR LTA014EUBFS8TL	
		< RESISTOR >	
R101	1-218-941-81	METAL CHIP 100 5% 1/16W	
R102	1-218-941-81	METAL CHIP 100 5% 1/16W	
R103	1-218-941-81	METAL CHIP 100 5% 1/16W	
R104	1-218-941-81	METAL CHIP 100 5% 1/16W	
R105	1-218-941-81	METAL CHIP 100 5% 1/16W	
R106	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R109	1-218-941-81	METAL CHIP 100 5% 1/16W	
R110	1-245-604-11	METAL CHIP 10M 5% 1/16W	
R111	1-218-981-81	METAL CHIP 220K 5% 1/16W	
R112	1-218-941-81	METAL CHIP 100 5% 1/16W	
R113	1-218-990-81	SHORT CHIP 0	
R114	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R115	1-218-989-11	METAL CHIP 1M 5% 1/16W	
R116	1-218-941-81	METAL CHIP 100 5% 1/16W	
R117	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R118	1-218-941-81	METAL CHIP 100 5% 1/16W	
R120	1-218-973-11	METAL CHIP 47K 5% 1/16W	
R121	1-218-990-81	SHORT CHIP 0	
R122	1-218-990-81	SHORT CHIP 0	
R123	1-218-941-81	METAL CHIP 100 5% 1/16W	
R124	1-218-941-81	METAL CHIP 100 5% 1/16W	
R125	1-218-941-81	METAL CHIP 100 5% 1/16W	
R126	1-218-941-81	METAL CHIP 100 5% 1/16W	
R127	1-218-941-81	METAL CHIP 100 5% 1/16W	
R128	1-218-941-81	METAL CHIP 100 5% 1/16W	
R129	1-218-941-81	METAL CHIP 100 5% 1/16W	
R130	1-218-941-81	METAL CHIP 100 5% 1/16W	
R131	1-218-990-81	SHORT CHIP 0	
R132	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R133	1-218-990-81	SHORT CHIP 0	
R134	1-218-941-81	METAL CHIP 100 5% 1/16W	
R135	1-218-953-11	METAL CHIP 1K 5% 1/16W	
R139	1-216-847-11	METAL CHIP 150K 5% 1/10W	
R142	1-218-961-11	METAL CHIP 4.7K 5% 1/16W	
R143	1-218-961-11	METAL CHIP 4.7K 5% 1/16W	
R144	1-218-961-11	METAL CHIP 4.7K 5% 1/16W	
R145	1-218-961-11	METAL CHIP 4.7K 5% 1/16W	
R146	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R147	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R148	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R149	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R150	1-218-965-11	METAL CHIP 10K 5% 1/16W	
R151	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R152	1-218-955-11	METAL CHIP 1.5K 5% 1/16W	
R153	1-218-955-11	METAL CHIP 1.5K 5% 1/16W	
R154	1-218-977-11	METAL CHIP 100K 5% 1/16W	
R155	1-218-977-11	METAL CHIP 100K 5% 1/16W	
R156	1-218-961-11	METAL CHIP 4.7K 5% 1/16W	
R157	1-218-961-11	METAL CHIP 4.7K 5% 1/16W	
R158	1-218-977-11	METAL CHIP 100K 5% 1/16W	

Note 1: IC506 on the MAIN board cannot exchange with single. When this part on the MAIN board is damaged, exchange the entire mounted board.

Note 2: When the IC604 on the MAIN board is replaced, spread the compound referring to “NOTE OF REPLACING THE IC604 ON THE MAIN BOARD AND THE COMPLETE MAIN BOARD” on servicing notes (page 4).

Ref. No.	Part No.	Description			Remark
R159	1-218-965-11	METAL CHIP	10K	5%	1/16W
R160	1-218-965-11	METAL CHIP	10K	5%	1/16W
R161	1-218-965-11	METAL CHIP	10K	5%	1/16W
R162	1-218-965-11	METAL CHIP	10K	5%	1/16W
R164	1-218-941-81	METAL CHIP	100	5%	1/16W
R165	1-218-941-81	METAL CHIP	100	5%	1/16W
R166	1-218-941-81	METAL CHIP	100	5%	1/16W
R167	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R168	1-218-955-11	METAL CHIP	1.5K	5%	1/16W (AUS)
R168	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (EXCEPT AEP, UK, AUS)
R170	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R171	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R172	1-208-911-11	METAL CHIP	10K	0.5%	1/16W
R174	1-216-864-11	SHORT CHIP	0		
R175	1-218-965-11	METAL CHIP	10K	5%	1/16W
R178	1-218-973-11	METAL CHIP	47K	5%	1/16W
R179	1-218-965-11	METAL CHIP	10K	5%	1/16W
R180	1-218-941-81	METAL CHIP	100	5%	1/16W
R181	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R182	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R183	1-218-965-11	METAL CHIP	10K	5%	1/16W
R190	1-218-941-81	METAL CHIP	100	5%	1/16W
R191	1-218-941-81	METAL CHIP	100	5%	1/16W
R192	1-218-941-81	METAL CHIP	100	5%	1/16W
R193	1-218-941-81	METAL CHIP	100	5%	1/16W
R194	1-218-941-81	METAL CHIP	100	5%	1/16W
R195	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R196	1-218-943-11	METAL CHIP	150	5%	1/16W (RU)
R196	1-218-951-11	METAL CHIP	680	5%	1/16W (MX)
R196	1-218-953-11	METAL CHIP	1K	5%	1/16W (E2, E51, AR)
R196	1-218-957-11	METAL CHIP	2.2K	5%	1/16W (US)
R196	1-218-961-11	METAL CHIP	4.7K	5%	1/16W (AEP, UK, AUS)
R197	1-218-941-81	METAL CHIP	100	5%	1/16W
R198	1-218-941-81	METAL CHIP	100	5%	1/16W
R210	1-218-941-81	METAL CHIP	100	5%	1/16W
R223	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R224	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R225	1-218-953-11	METAL CHIP	1K	5%	1/16W
R226	1-218-953-11	METAL CHIP	1K	5%	1/16W
R227	1-218-965-11	METAL CHIP	10K	5%	1/16W
R228	1-218-965-11	METAL CHIP	10K	5%	1/16W
R229	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R230	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R231	1-216-864-11	SHORT CHIP	0		
R280	1-218-929-11	METAL CHIP	10	5%	1/16W
R281	1-218-929-11	METAL CHIP	10	5%	1/16W
R283	1-218-941-81	METAL CHIP	100	5%	1/16W
R284	1-218-929-11	METAL CHIP	10	5%	1/16W
R286	1-218-929-11	METAL CHIP	10	5%	1/16W
R287	1-218-929-11	METAL CHIP	10	5%	1/16W
R289	1-218-929-11	METAL CHIP	10	5%	1/16W
R291	1-218-941-81	METAL CHIP	100	5%	1/16W
R292	1-218-929-11	METAL CHIP	10	5%	1/16W
R293	1-216-296-11	SHORT CHIP	0		
R294	1-216-296-11	SHORT CHIP	0		

Ref. No.	Part No.	Description			Remark
R295	1-218-929-11	METAL CHIP	10	5%	1/16W
R296	1-218-929-11	METAL CHIP	10	5%	1/16W
R297	1-218-929-11	METAL CHIP	10	5%	1/16W
R299	1-218-941-81	METAL CHIP	100	5%	1/16W
R300	1-216-815-11	METAL CHIP	330	5%	1/10W
R301	1-216-815-11	METAL CHIP	330	5%	1/10W
R302	1-216-819-11	METAL CHIP	680	5%	1/10W
R303	1-216-817-11	METAL CHIP	470	5%	1/10W
R304	1-216-817-11	METAL CHIP	470	5%	1/10W
R305	1-216-817-11	METAL CHIP	470	5%	1/10W
R306	1-216-817-11	METAL CHIP	470	5%	1/10W
R307	1-216-819-11	METAL CHIP	680	5%	1/10W
R308	1-216-812-11	METAL CHIP	180	5%	1/10W
R309	1-216-812-11	METAL CHIP	180	5%	1/10W
R310	1-216-812-11	METAL CHIP	180	5%	1/10W
R311	1-216-812-11	METAL CHIP	180	5%	1/10W
R312	1-216-864-11	SHORT CHIP	0		
R313	1-216-296-11	SHORT CHIP	0		
R314	1-218-990-81	SHORT CHIP	0		
R315	1-218-965-11	METAL CHIP	10K	5%	1/16W
R316	1-218-965-11	METAL CHIP	10K	5%	1/16W
R317	1-218-941-81	METAL CHIP	100	5%	1/16W
R318	1-218-933-11	METAL CHIP	22	5%	1/16W
R319	1-218-933-11	METAL CHIP	22	5%	1/16W
R320	1-218-941-81	METAL CHIP	100	5%	1/16W
R322	1-218-990-81	SHORT CHIP	0		
R324	1-218-956-11	METAL CHIP	1.8K	5%	1/16W
R326	1-218-941-81	METAL CHIP	100	5%	1/16W
R327	1-218-941-81	METAL CHIP	100	5%	1/16W
R328	1-218-929-11	METAL CHIP	10	5%	1/16W
R329	1-218-929-11	METAL CHIP	10	5%	1/16W
R330	1-218-933-11	METAL CHIP	22	5%	1/16W
R331	1-218-929-11	METAL CHIP	10	5%	1/16W
R333	1-218-941-81	METAL CHIP	100	5%	1/16W
R334	1-218-941-81	METAL CHIP	100	5%	1/16W
R335	1-218-941-81	METAL CHIP	100	5%	1/16W
R336	1-218-941-81	METAL CHIP	100	5%	1/16W
R337	1-218-941-81	METAL CHIP	100	5%	1/16W
R338	1-218-941-81	METAL CHIP	100	5%	1/16W
R339	1-218-965-11	METAL CHIP	10K	5%	1/16W
R340	1-218-941-81	METAL CHIP	100	5%	1/16W
R342	1-218-953-11	METAL CHIP	1K	5%	1/16W
R343	1-218-941-81	METAL CHIP	100	5%	1/16W
R344	1-218-989-11	METAL CHIP	1M	5%	1/16W
R345	1-208-709-11	METAL CHIP	12K	0.5%	1/16W
R346	1-220-803-81	METAL CHIP	4.7	5%	1/16W
R347	1-220-803-81	METAL CHIP	4.7	5%	1/16W
R348	1-218-965-11	METAL CHIP	10K	5%	1/16W
R349	1-218-965-11	METAL CHIP	10K	5%	1/16W
R350	1-208-713-11	METAL CHIP	18K	0.5%	1/16W
R351	1-216-295-91	SHORT CHIP	0		
R353	1-218-941-81	METAL CHIP	100	5%	1/16W
R356	1-218-990-81	SHORT CHIP	0		
R357	1-218-990-81	SHORT CHIP	0		
R358	1-218-965-11	METAL CHIP	10K	5%	1/16W
R359	1-218-941-81	METAL CHIP	100	5%	1/16W
R361	1-218-941-81	METAL CHIP	100	5%	1/16W
R362	1-218-941-81	METAL CHIP	100	5%	1/16W
R363	1-218-941-81	METAL CHIP	100	5%	1/16W
R364	1-216-833-11	METAL CHIP	10K	5%	1/10W

GTK-X1BT

MAIN

Ref. No.	Part No.	Description			Remark
R365	1-216-833-11	METAL CHIP	10K	5%	1/10W
R366	1-218-990-81	SHORT CHIP	0		
R367	1-218-941-81	METAL CHIP	100	5%	1/16W
R368	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R370	1-218-990-81	SHORT CHIP	0		
R371	1-218-929-11	METAL CHIP	10	5%	1/16W
R372	1-218-929-11	METAL CHIP	10	5%	1/16W
R373	1-218-929-11	METAL CHIP	10	5%	1/16W
R374	1-218-929-11	METAL CHIP	10	5%	1/16W
R375	1-218-933-11	METAL CHIP	22	5%	1/16W
R376	1-218-929-11	METAL CHIP	10	5%	1/16W
R377	1-218-929-11	METAL CHIP	10	5%	1/16W
R378	1-218-941-81	METAL CHIP	100	5%	1/16W
R381	1-216-864-11	SHORT CHIP	0		
R383	1-218-965-11	METAL CHIP	10K	5%	1/16W
R386	1-218-977-11	METAL CHIP	100K	5%	1/16W
R387	1-218-989-11	METAL CHIP	1M	5%	1/16W
R388	1-218-989-11	METAL CHIP	1M	5%	1/16W
R389	1-218-977-11	METAL CHIP	100K	5%	1/16W
R390	1-218-953-11	METAL CHIP	1K	5%	1/16W
R391	1-218-953-11	METAL CHIP	1K	5%	1/16W
R392	1-218-990-81	SHORT CHIP	0		
R398	1-218-941-81	METAL CHIP	100	5%	1/16W
R400	1-216-296-11	SHORT CHIP	0		
R401	1-216-296-11	SHORT CHIP	0		
R402	1-216-296-11	SHORT CHIP	0		
R403	1-218-969-11	METAL CHIP	22K	5%	1/16W
R404	1-218-967-11	METAL CHIP	15K	5%	1/16W
R405	1-216-296-11	SHORT CHIP	0		
R406	1-216-296-11	SHORT CHIP	0		
R408	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R411	1-216-842-11	METAL CHIP	56K	5%	1/10W
R412	1-216-842-11	METAL CHIP	56K	5%	1/10W
R413	1-216-853-11	METAL CHIP	470K	5%	1/10W
R414	1-216-853-11	METAL CHIP	470K	5%	1/10W
R415	1-218-973-11	METAL CHIP	47K	5%	1/16W
R416	1-216-864-11	SHORT CHIP	0		
R419	1-216-864-11	SHORT CHIP	0		
R421	1-216-296-11	SHORT CHIP	0		
R422	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R423	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R424	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R425	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R426	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R427	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R428	1-218-965-11	METAL CHIP	10K	5%	1/16W
R429	1-218-965-11	METAL CHIP	10K	5%	1/16W
R430	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R431	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R432	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R433	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R434	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R435	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R436	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R437	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R438	1-216-853-11	METAL CHIP	470K	5%	1/10W
R439	1-216-853-11	METAL CHIP	470K	5%	1/10W
R440	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R443	1-216-296-11	SHORT CHIP	0		
R444	1-220-221-11	METAL CHIP	100	5%	1/2W
R445	1-220-258-11	METAL CHIP	100	5%	1/4W
R446	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R447	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R448	1-216-837-11	METAL CHIP	22K	5%	1/10W
R449	1-218-973-11	METAL CHIP	47K	5%	1/16W
R450	1-216-296-11	SHORT CHIP	0		
R465	1-216-864-11	SHORT CHIP	0		
R466	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R467	1-218-891-11	METAL CHIP	68K	0.5%	1/10W
R468	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
R469	1-218-891-11	METAL CHIP	68K	0.5%	1/10W
R470	1-216-844-11	METAL CHIP	82K	5%	1/10W
R471	1-216-843-11	METAL CHIP	68K	5%	1/10W
R472	1-216-844-11	METAL CHIP	82K	5%	1/10W
R473	1-216-843-11	METAL CHIP	68K	5%	1/10W
R474	1-216-837-11	METAL CHIP	22K	5%	1/10W
R476	1-216-841-11	METAL CHIP	47K	5%	1/10W
R477	1-216-857-11	METAL CHIP	1M	5%	1/10W
R478	1-216-841-11	METAL CHIP	47K	5%	1/10W
R479	1-216-841-11	METAL CHIP	47K	5%	1/10W
R480	1-216-841-11	METAL CHIP	47K	5%	1/10W
R481	1-216-857-11	METAL CHIP	1M	5%	1/10W
R482	1-216-841-11	METAL CHIP	47K	5%	1/10W
R483	1-216-841-11	METAL CHIP	47K	5%	1/10W
R484	1-216-841-11	METAL CHIP	47K	5%	1/10W
R485	1-216-857-11	METAL CHIP	1M	5%	1/10W
R486	1-216-841-11	METAL CHIP	47K	5%	1/10W
R487	1-216-841-11	METAL CHIP	47K	5%	1/10W
R488	1-216-841-11	METAL CHIP	47K	5%	1/10W
R489	1-216-857-11	METAL CHIP	1M	5%	1/10W
R490	1-216-841-11	METAL CHIP	47K	5%	1/10W
R491	1-216-841-11	METAL CHIP	47K	5%	1/10W
R494	1-218-941-81	METAL CHIP	100	5%	1/16W
R495	1-216-809-11	METAL CHIP	100	5%	1/10W
R496	1-218-941-81	METAL CHIP	100	5%	1/16W
R497	1-216-809-11	METAL CHIP	100	5%	1/10W
R498	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R499	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R500	1-216-843-11	METAL CHIP	68K	5%	1/10W
R501	1-216-843-11	METAL CHIP	68K	5%	1/10W
R502	1-216-853-11	METAL CHIP	470K	5%	1/10W
R503	1-216-853-11	METAL CHIP	470K	5%	1/10W
R504	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R505	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R506	1-216-864-11	SHORT CHIP	0		
R507	1-216-864-11	SHORT CHIP	0		
R510	1-216-296-11	SHORT CHIP	0		
R514	1-216-837-11	METAL CHIP	22K	5%	1/10W
R515	1-216-789-11	METAL CHIP	2.2	5%	1/10W
R516	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R517	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R518	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R519	1-216-833-11	METAL CHIP	10K	5%	1/10W
R520	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R521	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R522	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R523	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W
R526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R537	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R538	1-216-835-11	METAL CHIP	15K	5%	1/10W
R539	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R540	1-218-903-11	METAL CHIP	220K	0.5%	1/10W
R541	1-216-843-11	METAL CHIP	68K	5%	1/10W
R542	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R543	1-216-843-11	METAL CHIP	68K	5%	1/10W
R544	1-216-833-11	METAL CHIP	10K	5%	1/10W
R545	1-216-843-11	METAL CHIP	68K	5%	1/10W
R546	1-216-837-11	METAL CHIP	22K	5%	1/10W
R547	1-216-839-11	METAL CHIP	33K	5%	1/10W
R548	1-216-839-11	METAL CHIP	33K	5%	1/10W
R549	1-216-837-11	METAL CHIP	22K	5%	1/10W
R550	1-216-852-11	METAL CHIP	390K	5%	1/10W
R551	1-216-841-11	METAL CHIP	47K	5%	1/10W
R552	1-216-839-11	METAL CHIP	33K	5%	1/10W
R553	1-216-864-11	SHORT CHIP	0		
R554	1-216-296-11	SHORT CHIP	0		
R555	1-216-296-11	SHORT CHIP	0		
R556	1-218-990-81	SHORT CHIP	0		
R557	1-216-851-11	METAL CHIP	330K	5%	1/10W
R558	1-216-839-11	METAL CHIP	33K	5%	1/10W
R559	1-216-837-11	METAL CHIP	22K	5%	1/10W
R565	1-216-809-11	METAL CHIP	100	5%	1/10W
R566	1-218-953-11	METAL CHIP	1K	5%	1/16W
R567	1-208-922-11	METAL CHIP	30K	0.5%	1/16W
R570	1-218-978-11	METAL CHIP	120K	5%	1/16W
R571	1-208-715-11	METAL CHIP	22K	0.5%	1/16W
R572	1-208-909-11	METAL CHIP	8.2K	0.5%	1/16W
R573	1-208-927-11	METAL CHIP	47K	0.5%	1/16W
R575	1-218-968-11	METAL CHIP	18K	5%	1/16W
R576	1-218-973-11	METAL CHIP	47K	5%	1/16W
R578	1-216-864-11	SHORT CHIP	0		
R585	1-216-296-11	SHORT CHIP	0		
R586	1-216-296-11	SHORT CHIP	0		
R587	1-216-296-11	SHORT CHIP	0		
R588	1-216-864-11	SHORT CHIP	0		
R589	1-216-296-11	SHORT CHIP	0		
R592	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R593	1-216-063-91	METAL CHIP	3.9K	5%	1/8W
R597	1-218-879-11	METAL CHIP	22K	0.5%	1/10W
R598	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R599	1-216-296-11	SHORT CHIP	0		
R600	1-216-296-11	SHORT CHIP	0		
R601	1-218-945-11	METAL CHIP	220	5%	1/16W
R602	1-218-945-11	METAL CHIP	220	5%	1/16W
R603	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R604	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R605	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R606	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R607	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R608	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R609	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R610	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R613	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R614	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R615	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R616	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R617	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R618	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R619	1-216-791-11	METAL CHIP	3.3	5%	1/10W

Ref. No.	Part No.	Description			Remark
R620	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R621	1-216-821-11	METAL CHIP	1K	5%	1/10W
R623	1-216-837-11	METAL CHIP	22K	5%	1/10W
R624	1-216-841-11	METAL CHIP	47K	5%	1/10W
R625	1-216-845-11	METAL CHIP	100K	5%	1/10W
R626	1-216-845-11	METAL CHIP	100K	5%	1/10W
R627	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-849-11	METAL CHIP	220K	5%	1/10W
R629	1-216-849-11	METAL CHIP	220K	5%	1/10W
R630	1-216-849-11	METAL CHIP	220K	5%	1/10W
R631	1-216-849-11	METAL CHIP	220K	5%	1/10W
R632	1-216-849-11	METAL CHIP	220K	5%	1/10W
R633	1-216-849-11	METAL CHIP	220K	5%	1/10W
R634	1-216-841-11	METAL CHIP	47K	5%	1/10W
R636	1-218-929-11	METAL CHIP	10	5%	1/16W
R637	1-218-929-11	METAL CHIP	10	5%	1/16W
R638	1-218-929-11	METAL CHIP	10	5%	1/16W
R640	1-218-941-81	METAL CHIP	100	5%	1/16W
R641	1-218-941-81	METAL CHIP	100	5%	1/16W
R642	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R643	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R644	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R645	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R646	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R647	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R648	1-218-953-11	METAL CHIP	1K	5%	1/16W
R649	1-218-941-81	METAL CHIP	100	5%	1/16W
R650	1-216-809-11	METAL CHIP	100	5%	1/10W
R651	1-216-809-11	METAL CHIP	100	5%	1/10W
R652	1-216-809-11	METAL CHIP	100	5%	1/10W
R653	1-216-809-11	METAL CHIP	100	5%	1/10W
R654	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R655	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R656	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R657	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R660	1-250-519-11	METAL CHIP	10K	1%	1/16W
R669	1-216-842-11	METAL CHIP	56K	5%	1/10W
R670	1-216-842-11	METAL CHIP	56K	5%	1/10W
R671	1-216-842-11	METAL CHIP	56K	5%	1/10W
R672	1-216-842-11	METAL CHIP	56K	5%	1/10W
R673	1-216-837-11	METAL CHIP	22K	5%	1/10W
R674	1-257-603-11	RES-CHIP	33	5%	2W
R675	1-257-603-11	RES-CHIP	33	5%	2W
R676	1-257-603-11	RES-CHIP	33	5%	2W
R677	1-257-603-11	RES-CHIP	33	5%	2W
R678	1-257-603-11	RES-CHIP	33	5%	2W
R679	1-257-603-11	RES-CHIP	33	5%	2W
R680	1-257-603-11	RES-CHIP	33	5%	2W
R681	1-257-603-11	RES-CHIP	33	5%	2W
R684	1-218-929-11	METAL CHIP	10	5%	1/16W
R685	1-218-929-11	METAL CHIP	10	5%	1/16W
R686	1-218-929-11	METAL CHIP	10	5%	1/16W
R688	1-216-864-11	SHORT CHIP	0		
R689	1-216-864-11	SHORT CHIP	0		
R692	1-216-841-11	METAL CHIP	47K	5%	1/10W
R693	1-216-845-11	METAL CHIP	100K	5%	1/10W
R694	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R695	1-216-833-11	METAL CHIP	10K	5%	1/10W
R696	1-216-834-11	METAL CHIP	12K	5%	1/10W
R701	1-216-826-11	METAL CHIP	2.7K	5%	1/10W

GTK-X1BT

MAIN

Ref. No.	Part No.	Description			Remark
R702	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R703	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R704	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RB101	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB102	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB103	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB104	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB304	1-234-372-11	RES, NETWORK 100 (1005X4)			
		< SWITCH >			
SE101	1-492-774-11	RPI-1035 SLANT SENSOR			
		< VIBRATOR >			
X101	1-814-446-11	QUARTZ CRYSTAL UNIT (8MHz)			
X102	1-814-273-11	QUARTZ CRYSTAL UNIT (32.768kHz)			
X301	1-814-466-11	QUARTZ CRYSTAL UNITS (12.288MHz)			
X302	1-814-450-11	QUARTZ CRYSTAL UNITS (16.9344MHz)			
X303	1-814-365-11	QUARTZ CRYSTAL UNITS (12MHz)			

REVISION HISTORY

Ver.	Date	Description of Revision
1.0	2014.02	New
1.1	2014.04	Addition of Argentina and Malaysia models. Add CUSHION in page 15. Add note for CONNECTORS CHECK in page 4. Add D1101, D1102, JR1104 and R1113 in DISPLAY board. Add D610 in MAIN board (Suffix-13). Add Servicing Notes for IC102 in MAIN board (Service code changed). Change chassis illustration in page 19, 60 and 61. Change description of Ref. No. 104 and 105 in page 59. Change description of Ref. No. 306 in page 63. Change line indication for US, AEP, UK, Russian, Malaysia and Australian models in page 15 and 58. Change P/N of C1101 and JR1101 in DISPLAY board. Change P/N of C273, C304 and C395 in MAIN board. Change P/N of C1300 and C1304 in USB board. Change P/N and description of R1105 in DISPLAY board. Change P/N and description of C423, C432, R181, R182, R403, R404, R440, R466, R467, R468, R469, R470, R472, R498, R499, R504, R505, R592, R597 and R598 in MAIN board. Change P/N and description of D512 and R621 in MAIN board (Suffix-13). Change of DISPLAY board, DJ board, IR board, PLAY board, POWER board, SMPS board, USB board and VOLUME board (Suffix-12). Change of MAIN board (Suffix-13) (SUPPLEMENT-1). Change of connectors for MAIN board (CN301) (SUPPLEMENT-1). Delete of R1101 and R1112 in DISPLAY board. Delete of Q406, R407, R492 and R493 in MAIN board. Delete of D605, D606, D607, D608 and R622 in MAIN board (Suffix-13). Delete of location for CUSHION (E) in page 61. Delete of PC SHEET in page 61. Service code change for SCREW, +PSW M3X10 (SPECIAL NECK) in page 73.
1.2	2014.06	Change of MAIN board (Suffix-14) (SUPPLEMENT-1). Change P/N of THERMAL COMPOUND (TIG2000) in Servicing Notes section. Delete of L602, L603, L607 and L608 in MAIN board (SUPPLEMENT-1). Delete of FILTER, CLAMP (FERRITE CORE) in page 16, 58 and 75.
1.3	2014.09	Add P/N of CN301 in MAIN board (Service code changed) (SUPPLEMENT-1). Add P/N printing in MAIN board for Discrimination section (SUPPLEMENT-1). Change P/N and description of D905 and D906 in SMPS board for Chilean, Peruvian and US models.
1.4	2016.01	Add SS-GTKX1BT-ASSY in page 62 and 75. Change description of R593 in MAIN board (SUPPLEMENT-1). Change description of R919, R927, R936, R939, R940, R941, R967, R968, R969, R970, R984, R1014, R1017, R1020, R1022, R1023, R1024, R1025, R1026, R1027 and R1029 in SMPS board. Change destination for CORE, FERRITE in page 15. Change P/N and description of CN1410, CN1411, CN1412, CN1413, CN1414 and CN1415 in JUNCTION board.

GTK-X1BT

Ver.	Date	Description of Revision
		Change P/N and description of CN303, CN304, D507 and D512 in MAIN board (SUPPLEMENT-1). Change P/N and description of D905 and D906 in SMPS board for except Chilean, Peruvian and US models. Change P/N and description of Ref. No. 56 and 57 in page 58 and 75. Change P/N and description of Ref. No. 155 in page 60 and 75. Change P/N and description of Ref. No. 304 in page 63 and 75. Change P/N and description of Ref. No. 305 in page 8, 10, 29, 63 and 75. Change P/N of CN1390 in HND LEFT board. Change P/N of CN1400 in HND RIGHT board. Change P/N of CN1370 in SPK LEFT board. Change P/N of CN1380 in SPK RIGHT board. Change P/N of Ref. No. 156 for US, AEP, Russian, Chilean and Peruvian models in page 60 and 75. Delete CUSHION (CABINET) and LOUDSPEAKER (20CM) in page 62. Delete destination of 120 V AC area in E model for MANUAL, INSTRUCTION (FRENCH) in ACCESSORIES section.

How to search for a contact point of signal lines or the like in DIAGRAMS SECTION

If a contact point of a BLOCK DIAGRAM, PRINTED WIRING BOARD or SCHEMATIC DIAGRAM is shown in a different page, use the PDF file search function to find one.

e.g.) If a contact point is shown as >001Z, follow the procedure below.

Procedure:

1. Press the [F] key while pressing the [Ctrl] key.
2. Input ">001Z" in the search box and press the [Enter] key.
3. The relevant part (page), where the contact point is shown, appears.

Note: If you still see the original page, press the [Enter] key again.